

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

12/24/10

Farah Hill  
Assistant District Attorney, Norfolk County

Dear ADA Hill,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]  
Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Khan (Dookhan), and Kate Corbett.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with chemist's hand notations and test results.
5. GC Spectral analytical data for sample # [REDACTED]
6. GC/Mass Spectral analytical data for samples # [REDACTED]

I, Annie Dookhan, was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan  
Chemist II  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6631

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

*The Commonwealth of Massachusetts*

*Executive Office of Health and Human Services*

*Department of Public Health*

*State Laboratory Institute*

Boston Drug Laboratory

Tel (617) 983-6622

Fax (617) 983-6625

Amherst Drug Laboratory

Tel (413) 545-2601

Fax (413) 545-2608

Boston Hours

8:00 – 11:00


2:00 – 4:00

Amherst Hours

9:00 – 12:00

1:00 – 3:00

**DRUG RECEIPT**

City or Department: Quincy Police Reference No.: 

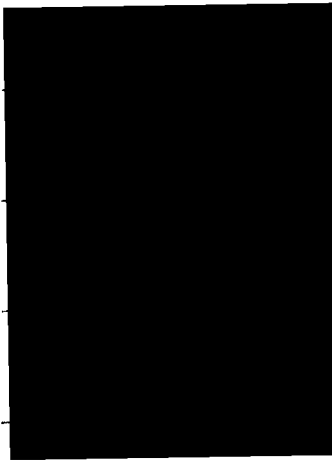
Name and Rank of Submitting Officer: Det. B. COHEN / Det. W. WARD

Defendant(s) Name (last, first, initial):



*To be completed by Submitter*  
Description of Items Submitted

*To be completed by Lab Personnel*  
Gross Weight      Lab Number

3 ORANGE TABLETS	3.18g	
4 EMPTY P/B'S WITH BROWN POWDER RES	4.00g	
LARGE P/B MARIJUANA	113.00g	
ZIPLOCK BAG OF MARIJUANA	11.65g	

Received by:  Date: 3-2-10

## Curriculum Vitae

Annie Khan (Dookhan)

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- \*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- \*Appointed Assistant Analyst by Assistant Commissioner of Public Health, January 2004.
- \*Responsible for the identification of drugs to determine violations of harmful and narcotic drug laws.
- \*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- \*Maintenance and repairs of all analytical instruments.
- \*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- \*Responsible for the Quality Control/Quality Assurance program for the drug lab.
- \*Notary Public.
- \*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- \*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- \*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs).
- \*Routine QC testing of products for the FDA.
- \*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- \*Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- \*Complete testing of chemicals for Vendor Validation Project for the FDA.
- \*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept. of Justice – Forensics Professionals.

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Kate A. Corbett

### Education

**Bachelor of Science Degree, CHEMISTRY May 2003**

**MERRIMACK COLLEGE**

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

---

### Employment

**Chemist II State Laboratory Institute (March 2008-Present)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

**Chemist I State Laboratory Institute (2005-March 2008)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

**Research Associate (September 2003 – August 2005)**

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

**Intern (March 2003 – August 2003)**

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

No. [REDACTED]  
City: Quincy Police Dept.  
Officer: Detective WILLIAM WARD  
Def: [REDACTED]  
Amount: 3.0  
No. Cont: 1 Cont: pb  
Date Rec'd: 03/02/2010  
Gross Wt.: 3.18

Date Analyzed:

7/19/10

Subst: TAB

No. Analyzed:

Net Weight: 1.19

# Tests: 190

• 2011

Prelim: Buprenorphine  
3

Findings: Buprenorphine

No. [REDACTED]  
City: Quincy Police Dept.  
Officer: Detective WILLIAM WARD  
Def: [REDACTED]  
Amount:  
No. Cont: 4 Cont: pb  
Date Rec'd: 03/02/2010  
Gross Wt.: 4.00

Date Analyzed:

7/19/10

Res  
Subst: SUB

No. Analyzed:

Net Weight:

# Tests: 3 ASD

• 2011

Prelim: Heroin

Findings: Heroin

No. [REDACTED]  
City: Quincy Police Dept.  
Officer: Detective WILLIAM WARD  
Def: [REDACTED]  
Amount:  
No. Cont: 1 Cont: pb  
Date Rec'd: 03/02/2010  
Gross Wt.: 113.00

Date Analyzed: 07-13-10

Subst: VM

No. Analyzed:

Net Weight: 93.8

# Tests: 3 ASD

marco  
Dugio

Prelim:

Findings: marijuana

No. [REDACTED]  
City: Quincy Police Dept.  
Officer: Detective WILLIAM WARD  
Def: [REDACTED]  
Amount:  
No. Cont: 1 Cont: pb  
Date Rec'd: 03/02/2010  
Gross Wt.: 11.65

Date Analyzed: 07-13-10

Subst: VM

No. Analyzed:

Net Weight

# Tests: 3 ASD

Prelim:

Findings: NOT TESTED

# DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Quincy ANALYST ADD

No. of samples tested:            Evidence Wt.           

## PHYSICAL DESCRIPTION:

3 orange hexagonal tablet  
in pb



Gross Wt ( ):           

Gross Wt ( ):           

Pkg. Wt:           

Net Wt: 1.1907

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( )           

Marquis           

Froehde's           

Mecke's           

### Microcrystalline Tests

Gold  
Chloride           

TLTA ( )           

### OTHER TESTS

Muonex ALA

## PRELIMINARY TEST RESULTS

RESULTS Buprenorphine

DATE 7-13-10

## GC/MS CONFIRMATORY TEST

RESULTS Buprenorphine

MS  
OPERATOR KAC

DATE 7-14-10

**POISINDEX® Product List****Suboxone**

**Regulatory-Status:** Schedule III

**Ingredients**

**Active-Ingredients:** Naloxone - 2 MG  
Buprenorphine - 8 MG

**Availability & Manufacturing**

**Availability:** United States

**Available-Container-Size:** Bottle of 30

**Contact:** Reckitt Benckiser

**Product ID:** 6370996

**AAPCC Code:** 200625 - Buprenorphine

**Registry Number:** NDC 12496-1306-02

**Physical Description**

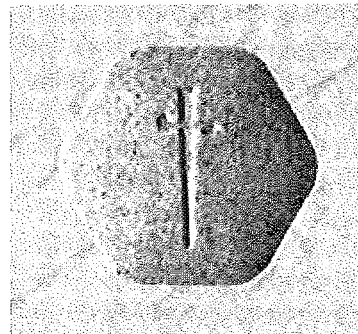
**Imprint:** N8; Sword Logo

**Form:** Tablet

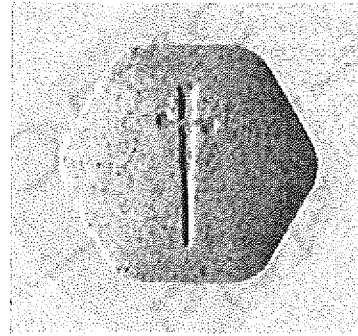
**Color:** orange

**Shape:** Six-sided

Images for NDC 12496-1306-02



Images for NDC 12496-1306-02



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# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Dunbar ANALYST ADD

No. of samples tested:            Evidence Wt.           

## PHYSICAL DESCRIPTION:

Residue in 4 pbs

Rinsed

Gross Wt ( ):           

Gross Wt ( ):           

Pkg. Wt:           

Net Wt:           

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( + )             
Marquis +  
Froehde's +  
Mecke's +

### Microcrystalline Tests

Gold  
Chloride             
TLTA ( )           

### OTHER TESTS

GC+

## PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 7-13-10

## GC/MS CONFIRMATORY TEST

RESULTS Heroin

MS  
OPERATOR KAC

DATE 7-14-10

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	BLANK	GENSCAN	1	Sample	1.0	
2	Vial 2	COKE/CODEINE STD	GENSCAN	1	Sample	1.0	
3	Vial 3	BLANK	GENSCAN	1	Sample	1.0	
4	Vial 4	HEROIN STD	GENSCAN	1	Sample	1.0	
5	Vial 5	BLANK	GENSCAN	1	Sample	1.0	
6	Vial 6		WGENSCAN	1	Sample	1.0	
7	Vial 7	BLANK	WGENSCAN	1	Sample	1.0	
8	Vial 8		WGENSCAN	1	Sample	1.0	
9	Vial 9	BLANK	WGENSCAN	1	Sample	1.0	
10	Vial 10		WGENSCAN	1	Sample	1.0	
11	Vial 11	BLANK	WGENSCAN	1	Sample	1.0	
12	Vial 12		WGENSCAN	1	Sample	1.0	
13	Vial 13	BLANK	WGENSCAN	1	Sample	1.0	
14	Vial 14		WGENSCAN	1	Sample	1.0	
15	Vial 15	BLANK	WGENSCAN	1	Sample	1.0	
16	Vial 16		WGENSCAN	1	Sample	1.0	
17	Vial 17	BLANK	WGENSCAN	1	Sample	1.0	
18	Vial 18		WGENSCAN	1	Sample	1.0	
19	Vial 19	BLANK	WGENSCAN	1	Sample	1.0	
20	Vial 20		WGENSCAN	1	Sample	1.0	
21	Vial 21	BLANK	WGENSCAN	1	Sample	1.0	
22	Vial 22		WGENSCAN	1	Sample	1.0	
23	Vial 23	BLANK	WGENSCAN	1	Sample	1.0	

Sequence Table (Back Injector):

No entries - empty table!

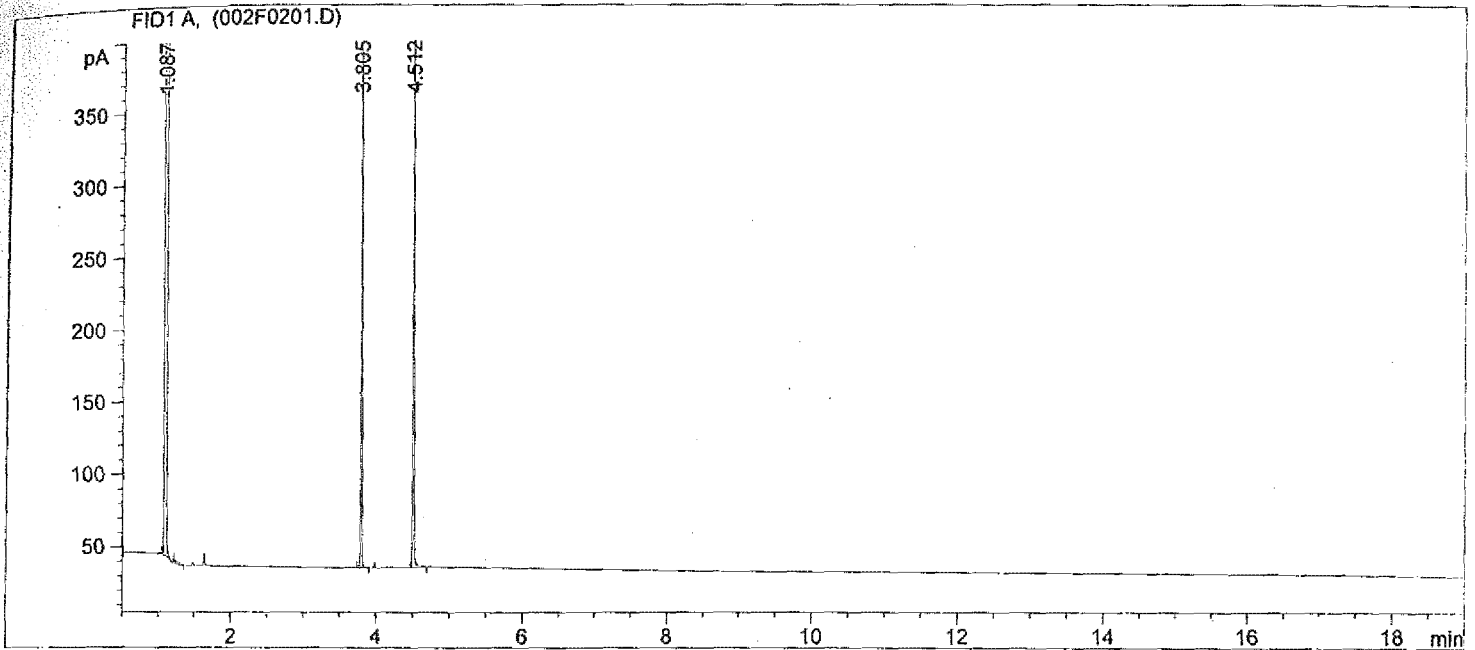
ASD  
7-14-10

=====

Injection Date	: 7/13/2010 1:21:40 PM	Seq. Line	: 2
Sample Name	: COKE/CODEINE STD	Location	: Vial 2
Acq. Operator	: ASD	Inj	: 1
Acq. Instrument	: Instrument 3	Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\CBS.S		
Method	: C:\HPCHEM\1\METHODS\GENSCAN.M		
Last changed	: 12/15/2008 12:38:16 PM by ASD		

FOR UNKNOWN SAMPLES

=====



=====  
Area Percent Report  
=====

Sorted By : Signal  
Multiplier : 1.0000  
Dilution : 1.0000  
Sample Amount : 1.00000 [fleeps] (not used in calc.)  
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	1.087	BB S	0.0162	1.19984e5	1.19469e5	99.38045
2	3.805	PB	0.0137	332.87680	380.09442	0.27572
3	4.512	PB	0.0172	415.11874	373.74844	0.34384

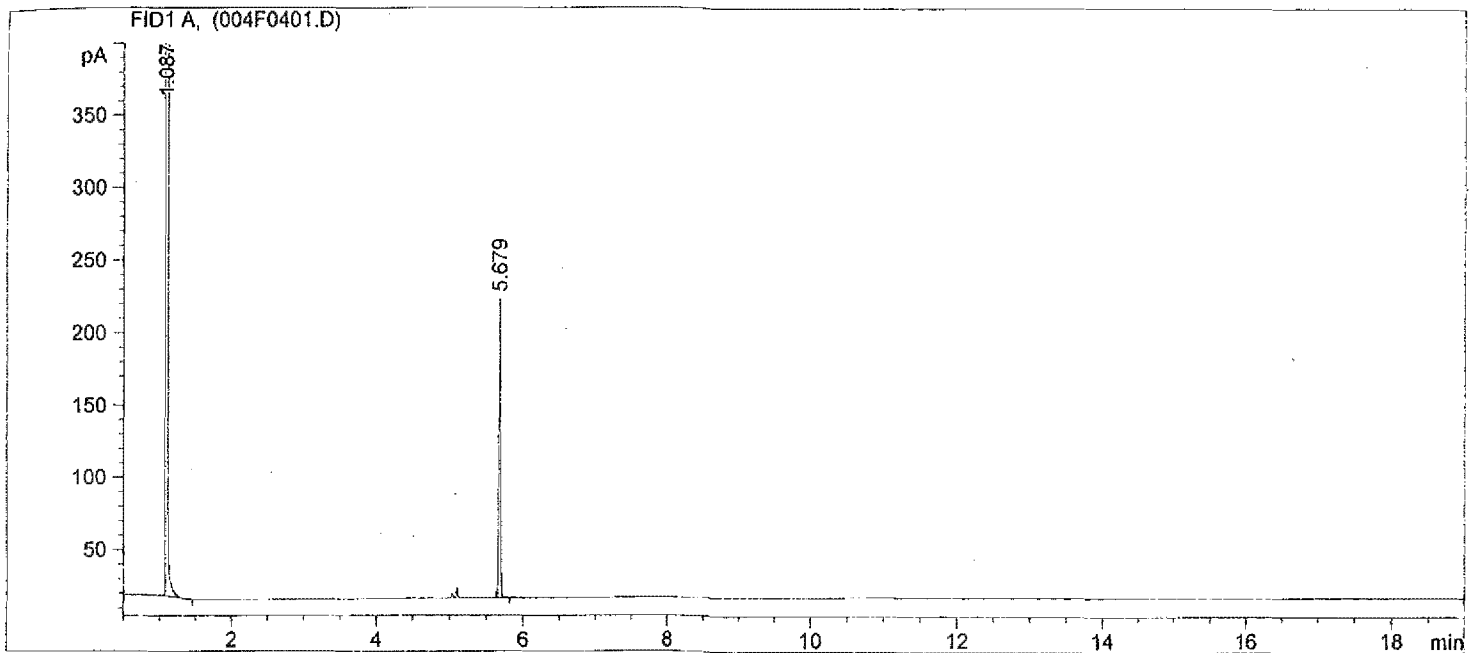
Totals : 1.20732e5 1.20223e5

Results obtained with enhanced integrator!

=====

\*\*\* End of Report \*\*\*

Injection Date : 7/13/2010 2:08:37 PM Seq. Line : 4  
Sample Name : HEROIN STD Location : Vial 4  
Acq. Operator : ASD Inj : 1  
Acq. Instrument : Instrument 3 Inj Volume : 1 µl  
Sequence File : C:\HPCHEM\1\SEQUENCE\CBS.S  
Method : C:\HPCHEM\1\METHODS\GENSCAN.M  
Last changed : 12/15/2008 12:38:16 PM by ASD  
FOR UNKNOWN SAMPLES



### Area Percent Report

Sorted By : Signal  
Multiplier : 1.0000  
Dilution : 1.0000  
Sample Amount : 1.00000 [fleeps] (not used in calc.)  
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

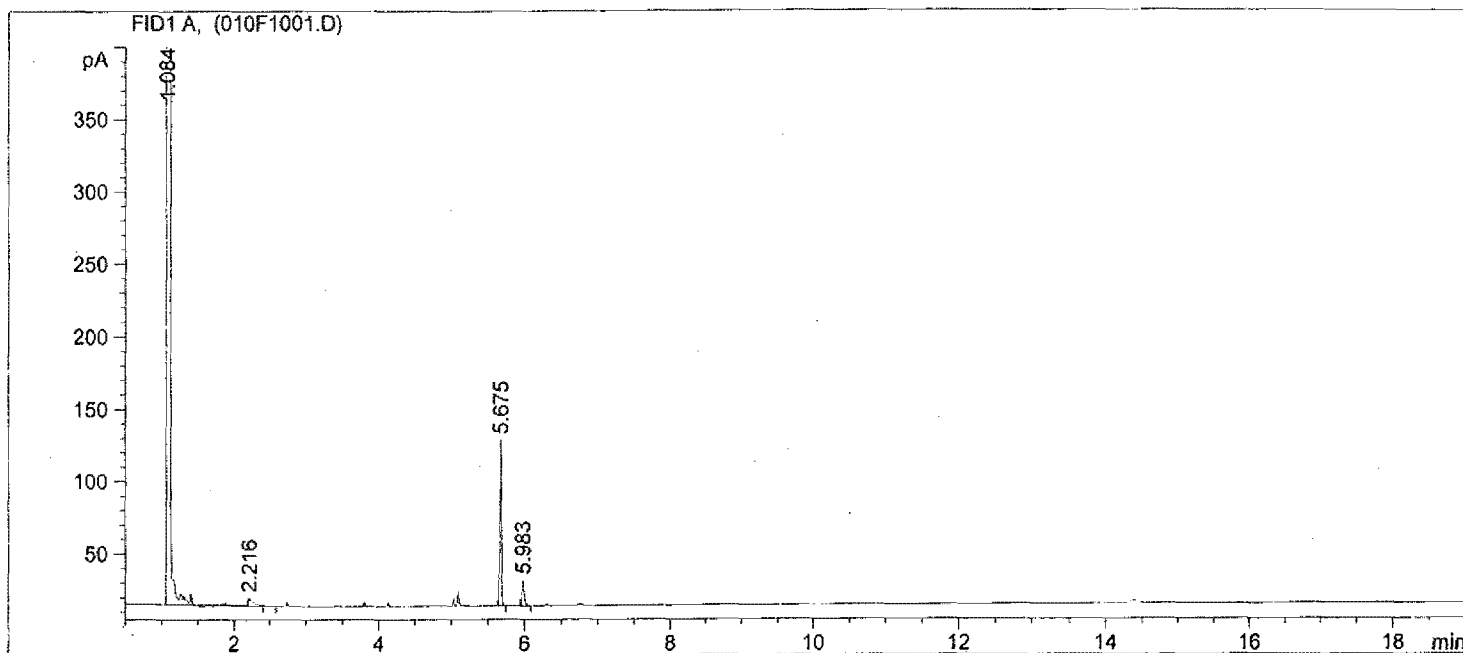
Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	1.087	BB S	0.0158	1.17955e5	1.18719e5	99.73274
2	5.679	BB	0.0231	316.09448	207.16216	0.26726

Totals : 1.18271e5 1.18926e5

Results obtained with enhanced integrator!

\*\*\* End of Report \*\*\*

Injection Date : 7/13/2010 4:29:20 PM Seq. Line : 10  
Sample Name : [REDACTED] Location : Vial 10  
Acq. Operator : ASD Inj : 1  
Acq. Instrument : Instrument 3 Inj Volume : 1 µl  
Sequence File : C:\HPCHEM\1\SEQUENCE\CBS.S  
Method : C:\HPCHEM\1\METHODS\WGENSCAN.M  
Last changed : 3/22/2007 1:40:54 PM by ASD  
FOR UNKNOWN SAMPLES



### Area Percent Report

Sorted By : Signal  
Multiplier : 1.0000  
Dilution : 1.0000  
Sample Amount : 1.00000 [fleeps] (not used in calc.)  
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	1.084	BB S	0.0250	2.07712e5	1.40084e5	99.88426
2	2.216	PV T	0.0673	29.21111	5.48846	0.01405
3	5.675	BB	0.0236	177.26242	114.31606	0.08524
4	5.983	BB	0.0302	34.21064	17.55638	0.01645

Totals : 2.07952e5 1.40221e5

Results obtained with enhanced integrator!

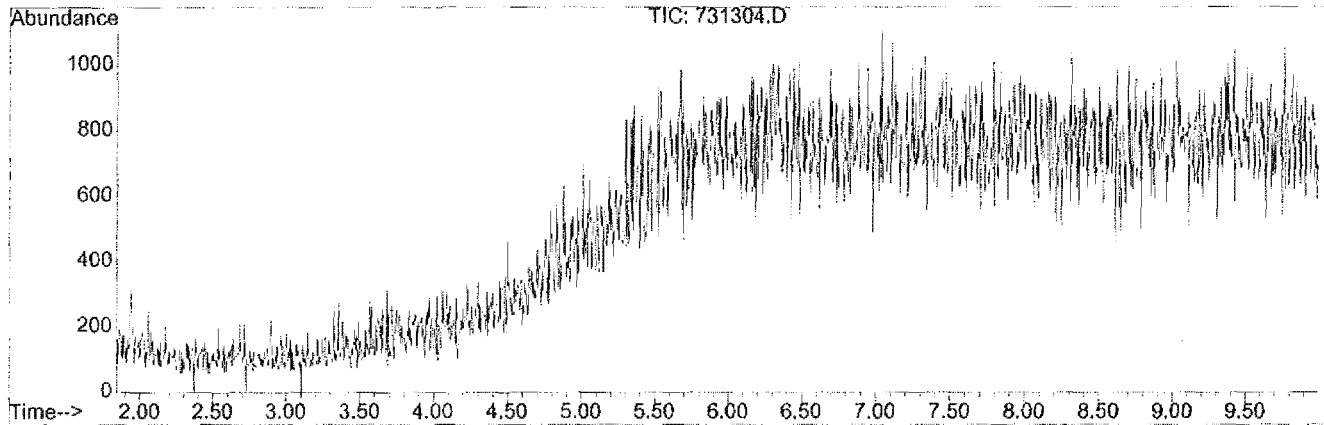
\*\*\* End of Report \*\*\*

Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731304.D  
Operator : KAC  
Date Acquired : 16 Jul 2010 10:31  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

✓ ASD  
12-28-10



Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

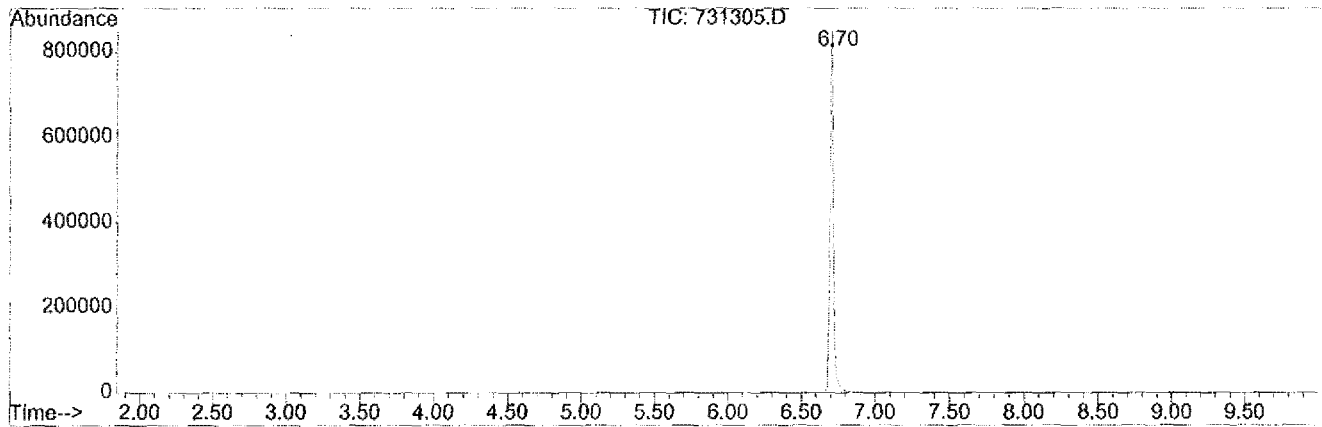
Area Percent / Library Search Report

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Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731305.D  
Operator : KAC  
Date Acquired : 16 Jul 2010 10:44  
Sample Name : HEROIN STD  
Submitted by :  
Vial Number : 5  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
6.705	1380540	100.00	100.00

---

# Area Percent / Library Search Report

**Information from Data File:**

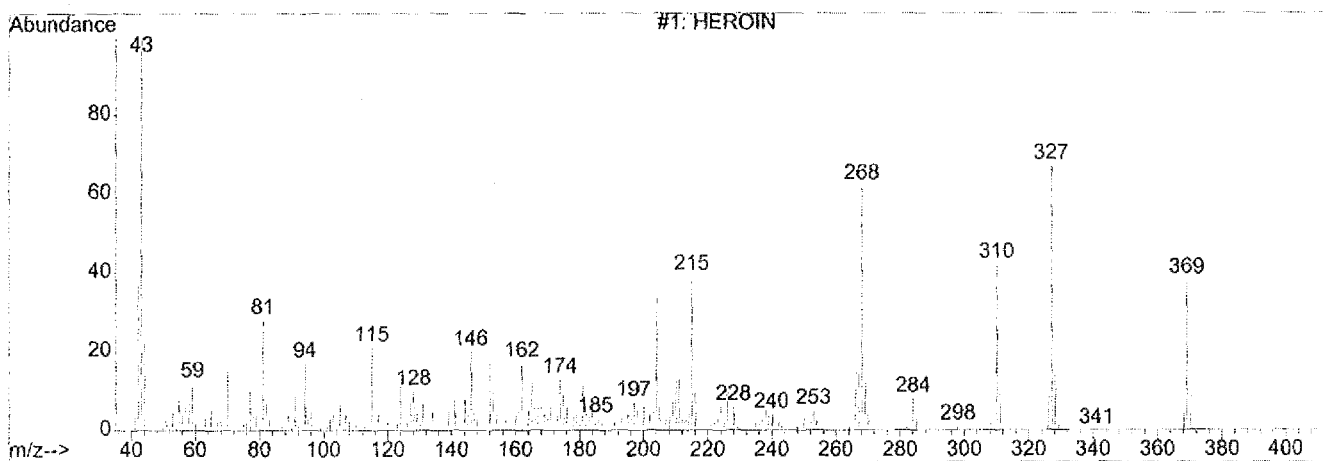
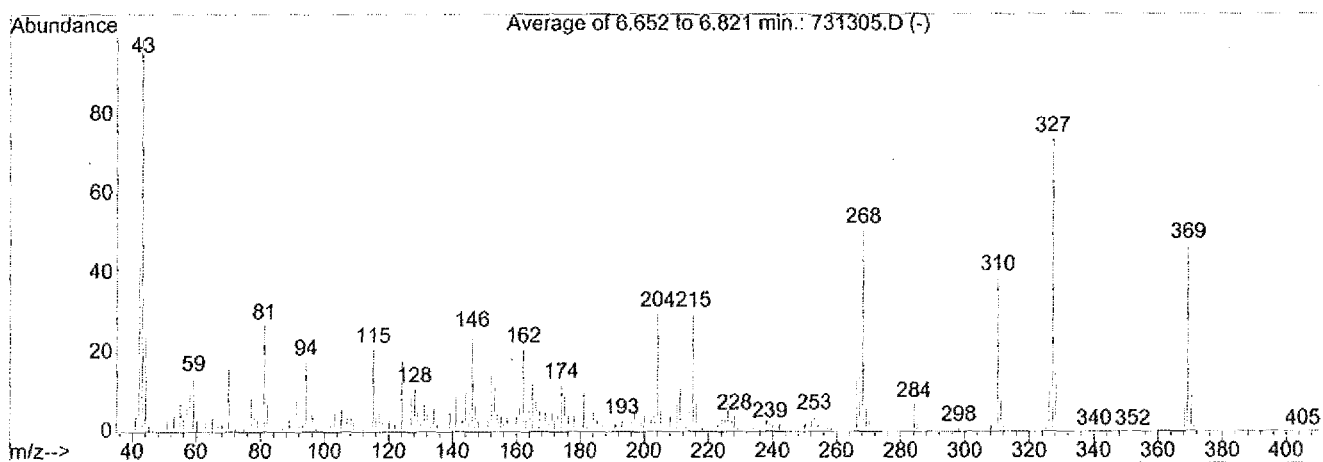
```

File Name       : D:\SYSTEM4\07_16_10\731305.D
Operator        : KAC
Date Acquired   : 16 Jul 2010   10:44
Sample Name     : HEROIN STD
Submitted by    :
Vial Number     : 5
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	6.70	C:\DATABASE\SLI.L HEROIN	000561-27-3	99





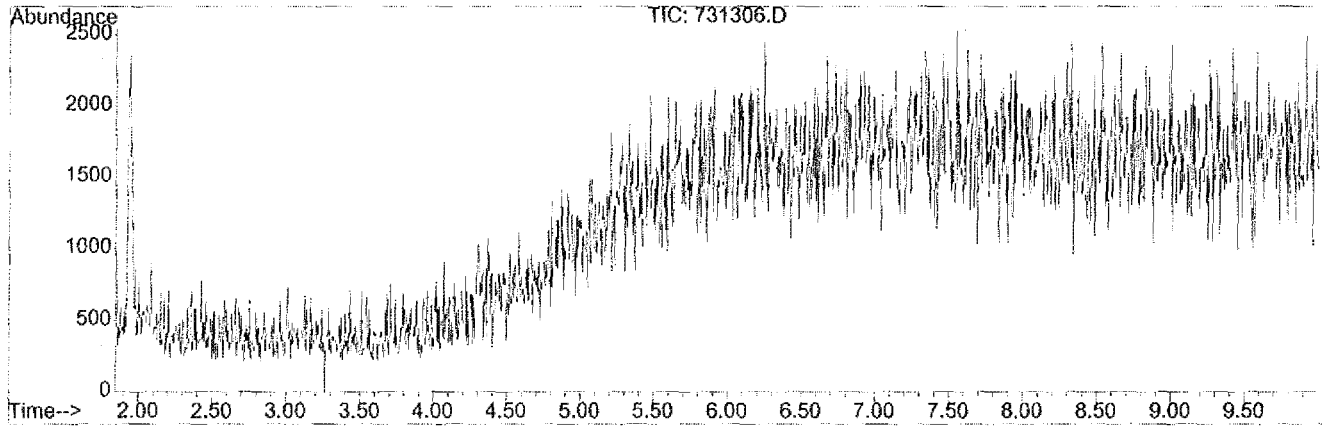
# Area Percent / Library Search Report

---

## Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731306.D  
Operator : KAC  
Date Acquired : 16 Jul 2010 10:58  
Sample Name : BLANK  
Submitted by : KAC  
Vial Number : 1  
AcquisitionMeth: WDRUGS  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
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---

\*\*\*NO INTEGRATED PEAKS\*\*\*

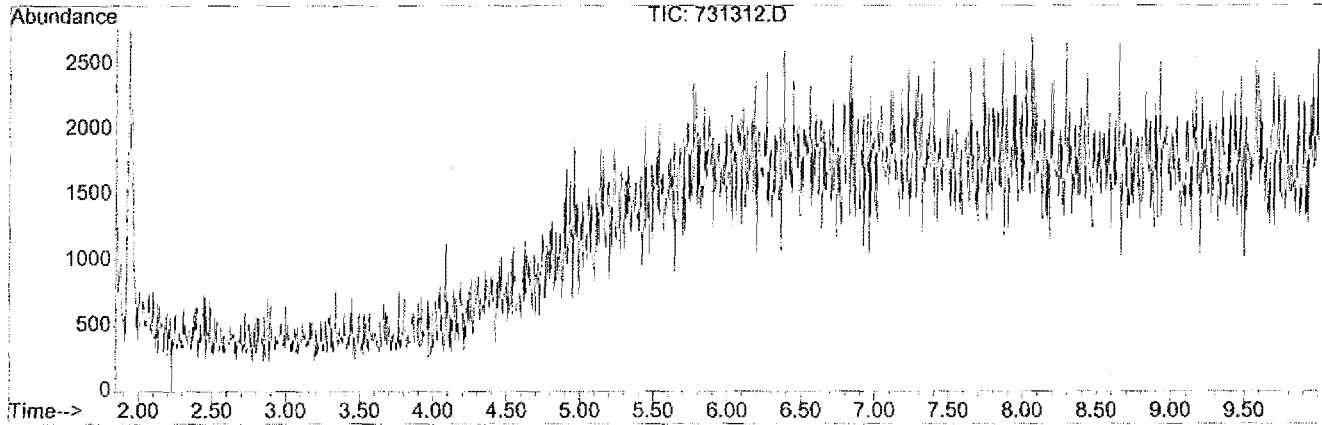
Area Percent / Library Search Report

---

Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731312.D  
Operator : KAC  
Date Acquired : 16 Jul 2010 12:19  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: WDRUGS  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
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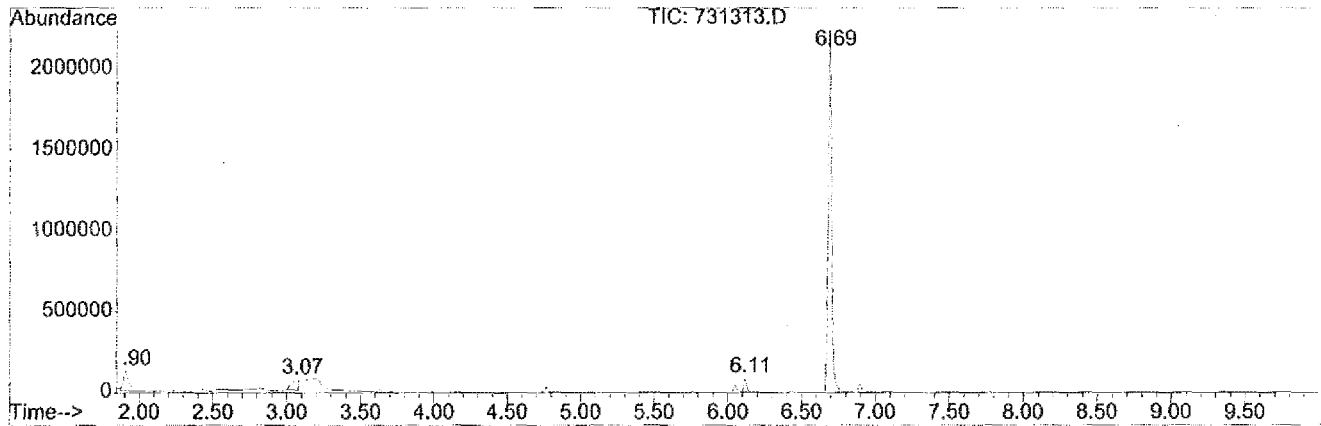
---

\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

## Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731313.D  
Operator : KAC  
Date Acquired : 16 Jul 2010 12:32  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 13  
AcquisitionMeth: WDRUGS  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
1.902	324441	7.61	8.98
3.066	211451	4.96	5.85
6.112	112624	2.64	3.12
6.689	3612748	84.78	100.00

# Area Percent / Library Search Report

**Information from Data File:**

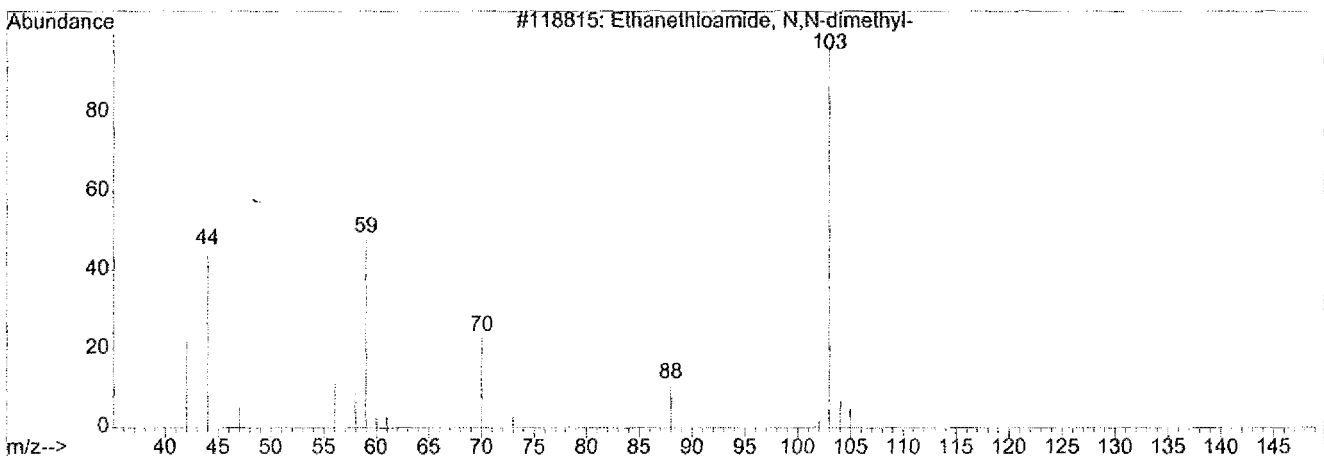
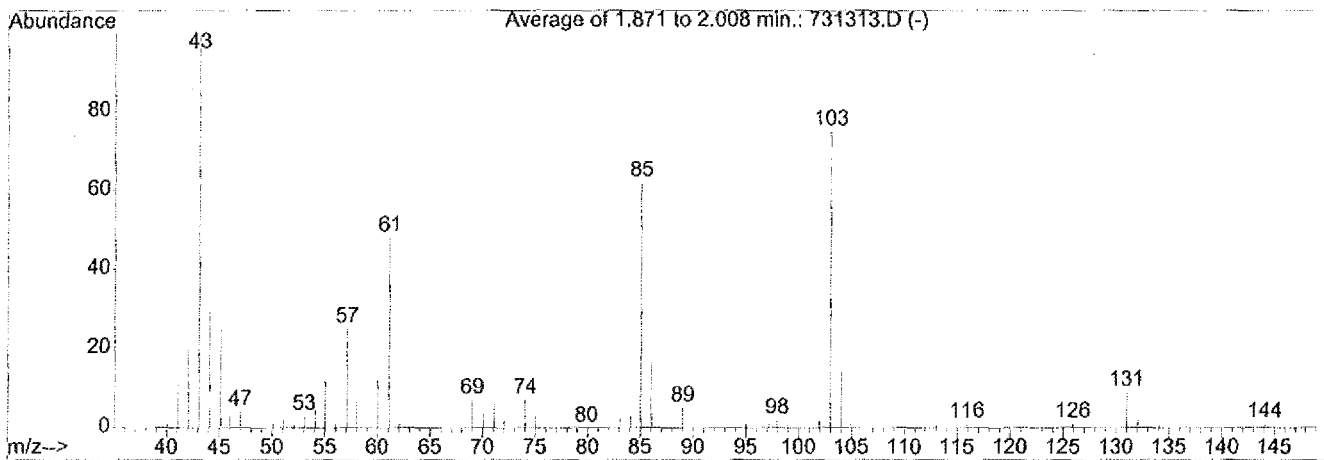
```

File Name       : D:\SYSTEM4\07_16_10\731313.D
Operator        : KAC
Date Acquired   : 16 Jul 2010  12:32
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 13
AcquisitionMeth : WDRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	1.90	C:\DATABASE\NIST98.L		
		Ethanethioamide, N,N-dimethyl-	000631-67-4	38
		Heptanoic acid, 3-hydroxy-, methyl	015889-95-9	33
		Hexyl isovalerate	010632-13-0	33



# Area Percent / Library Search Report

**Information from Data File:**

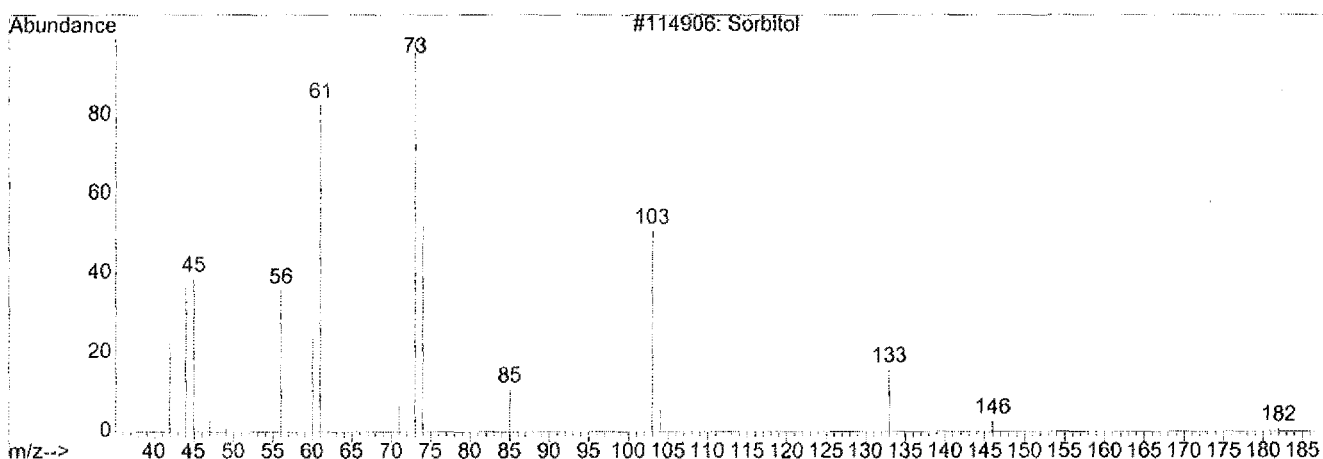
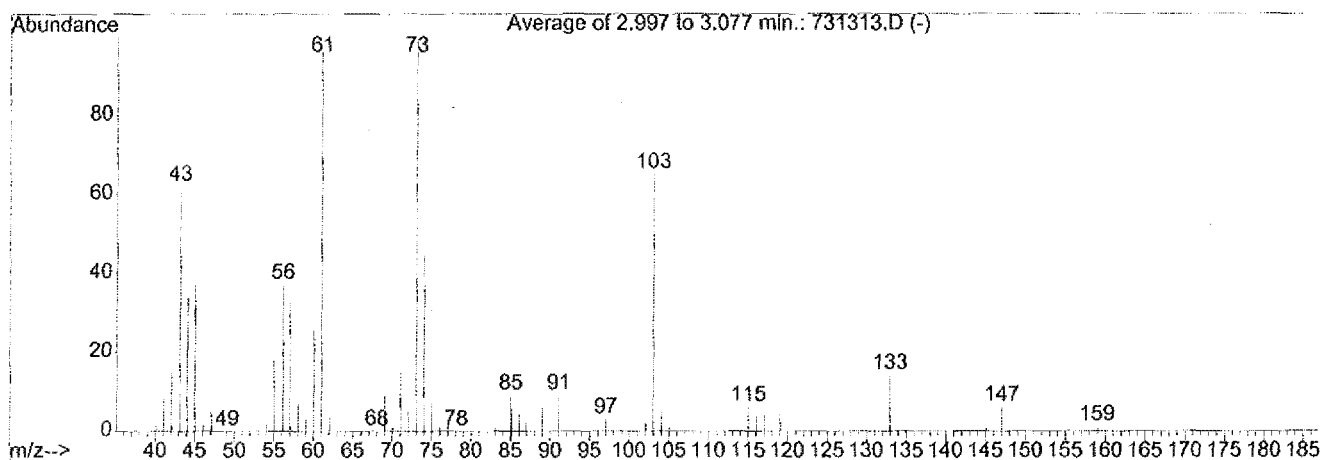
```

File Name       : D:\SYSTEM4\07_16_10\731313.D
Operator        : KAC
Date Acquired   : 16 Jul 2010  12:32
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 13
AcquisitionMeth : WDRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
2	3.07	C:\DATABASE\NIST98.L		
		Sorbitol	000050-70-4	91
		Sorbitol	000050-70-4	90
		Glucitol	026566-34-7	90



# Area Percent / Library Search Report

**Information from Data File:**

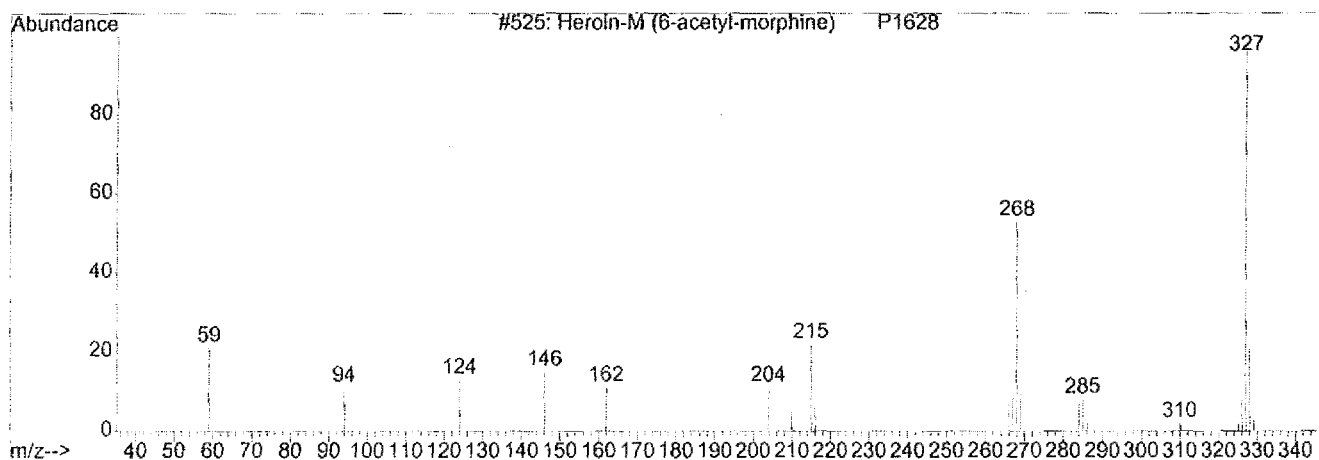
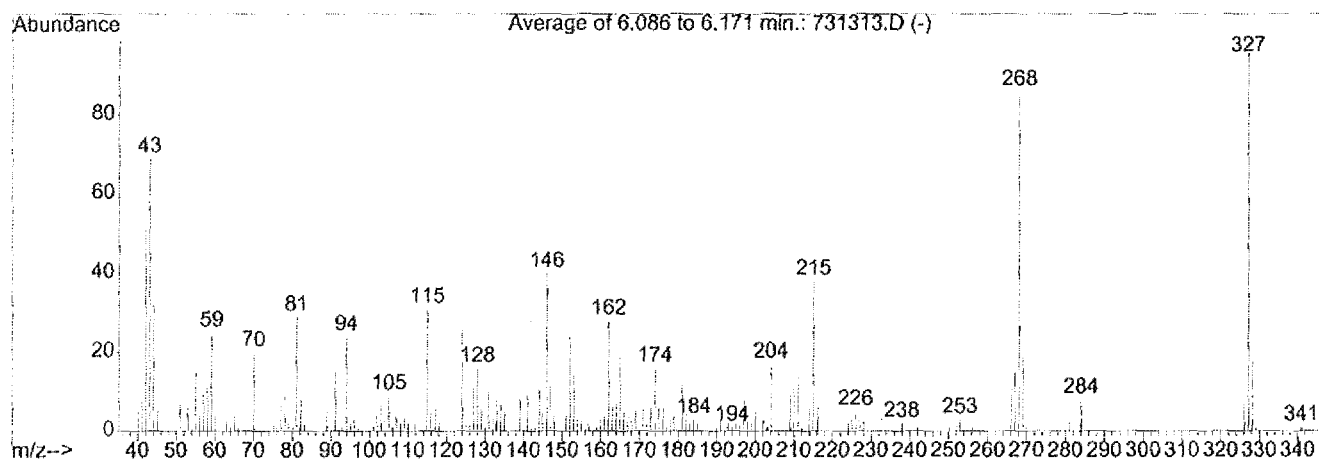
```

File Name       : D:\SYSTEM4\07_16_10\731313.D
Operator        : KAC
Date Acquired   : 16 Jul 2010  12:32
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 13
AcquisitionMeth : WDRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
3	6.11	C:\DATABASE\PMW_TOX2.L		
		Heroin-M (6-acetyl-morphine)	059833-14-6	91
		Heroin-M (3-acetyl-morphine)	000000-00-0	46
		Morphin 2AC	@ 000561-27-3	10



# Area Percent / Library Search Report

**Information from Data File:**

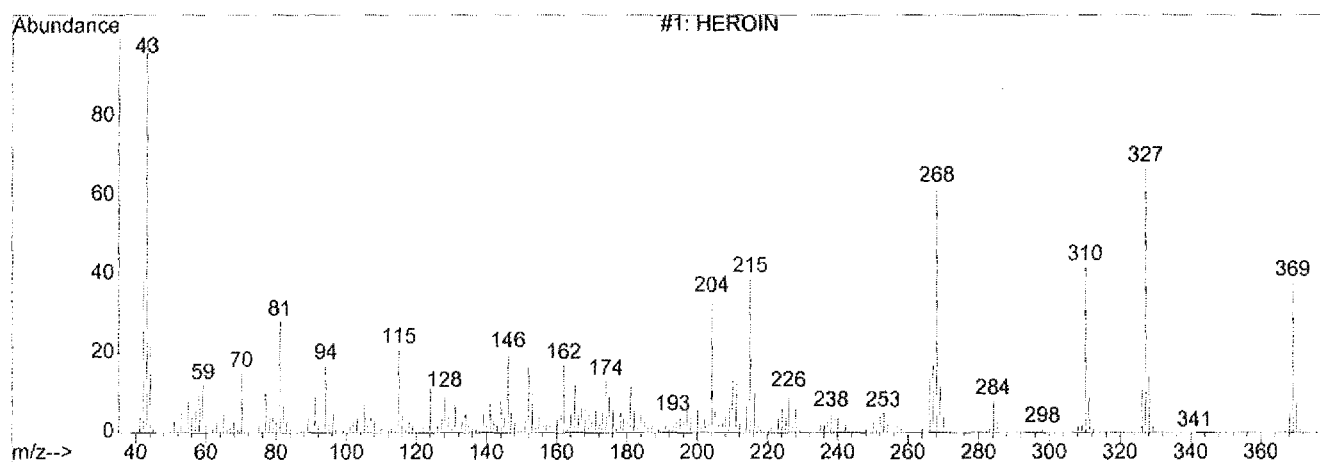
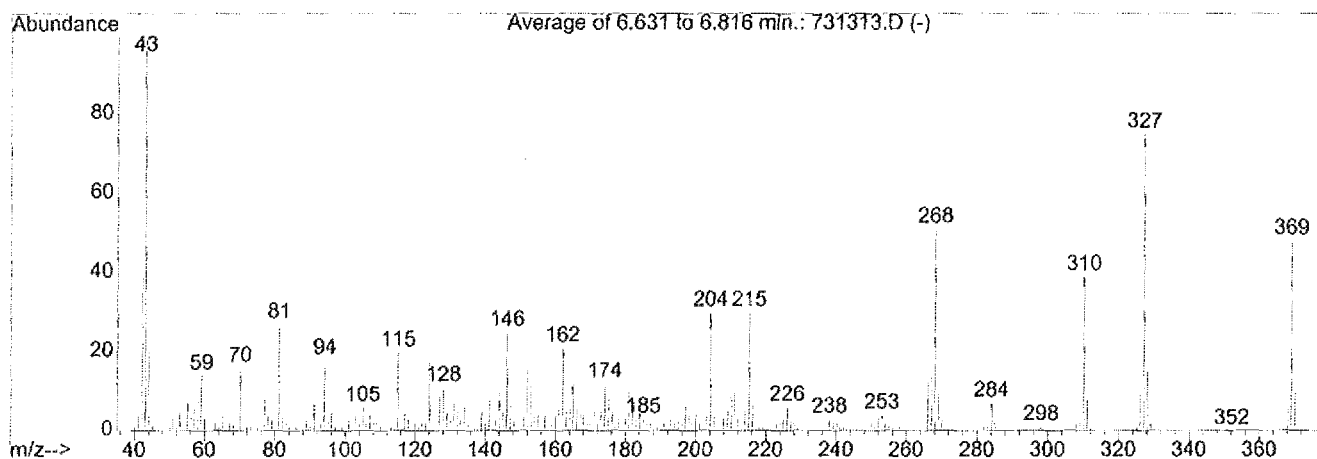
```

File Name       : D:\SYSTEM4\07_16_10\731313.D
Operator        : KAC
Date Acquired   : 16 Jul 2010  12:32
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 13
AcquisitionMeth : WDRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
4	6.69	C:\DATABASE\SLI.L HEROIN	000561-27-3	99



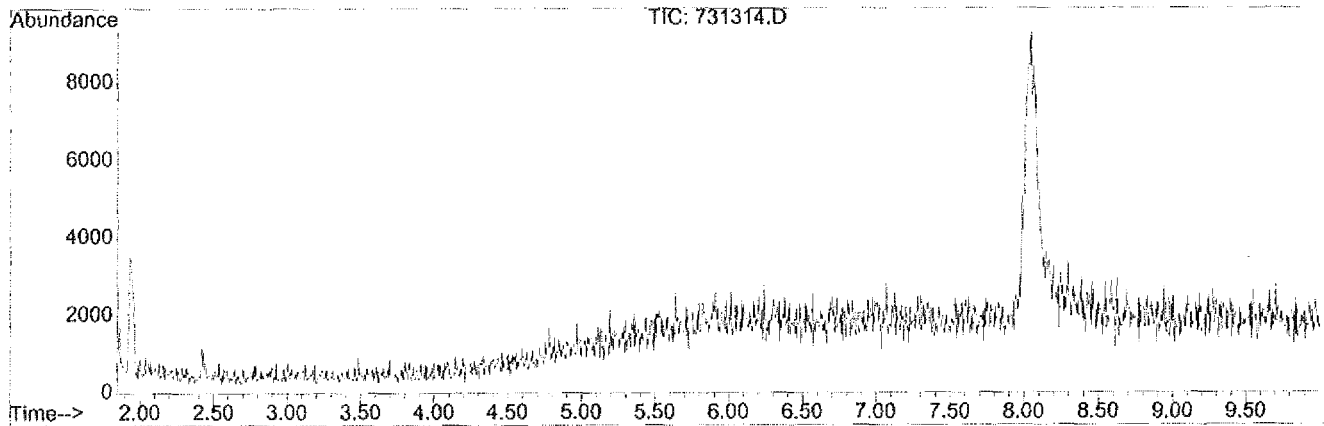
Area Percent / Library Search Report

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Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731314.D  
Operator : KAC  
Date Acquired : 16 Jul 2010 12:46  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: WDRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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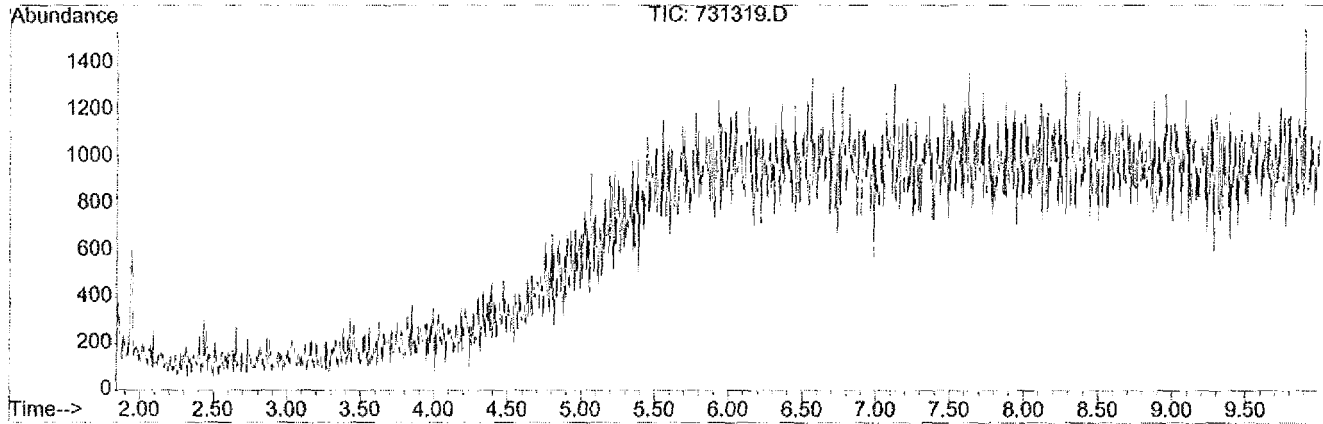
\*\*\*NO INTEGRATED PEAKS\*\*\*



# Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731319.D  
Operator : KAC  
Date Acquired : 16 Jul 2010 13:53  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE



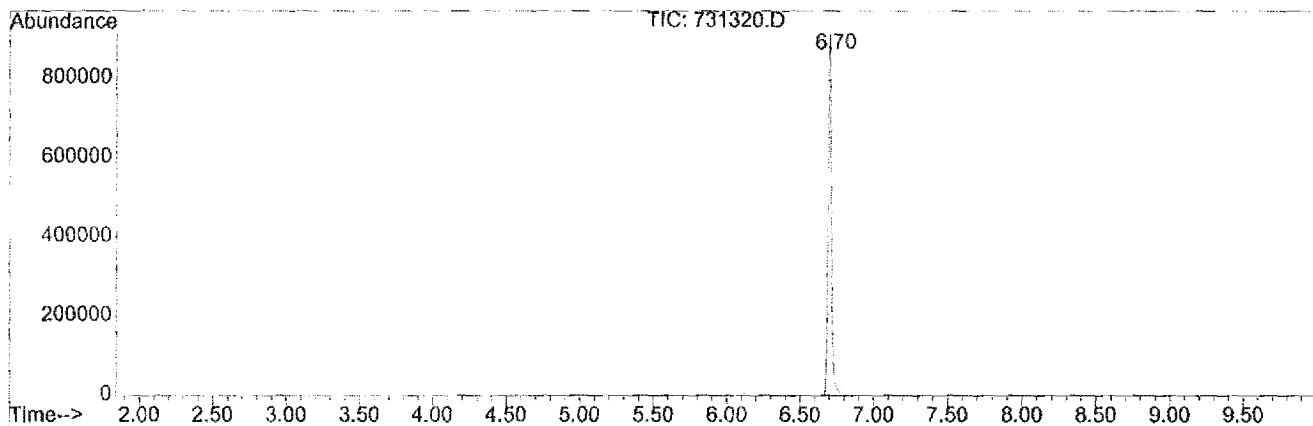
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731320.D  
 Operator : KAC  
 Date Acquired : 16 Jul 2010 14:07  
 Sample Name : HEROIN STD  
 Submitted by :  
 Vial Number : 20  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.698	1455859	100.00	100.00

# Area Percent / Library Search Report

**Information from Data File:**

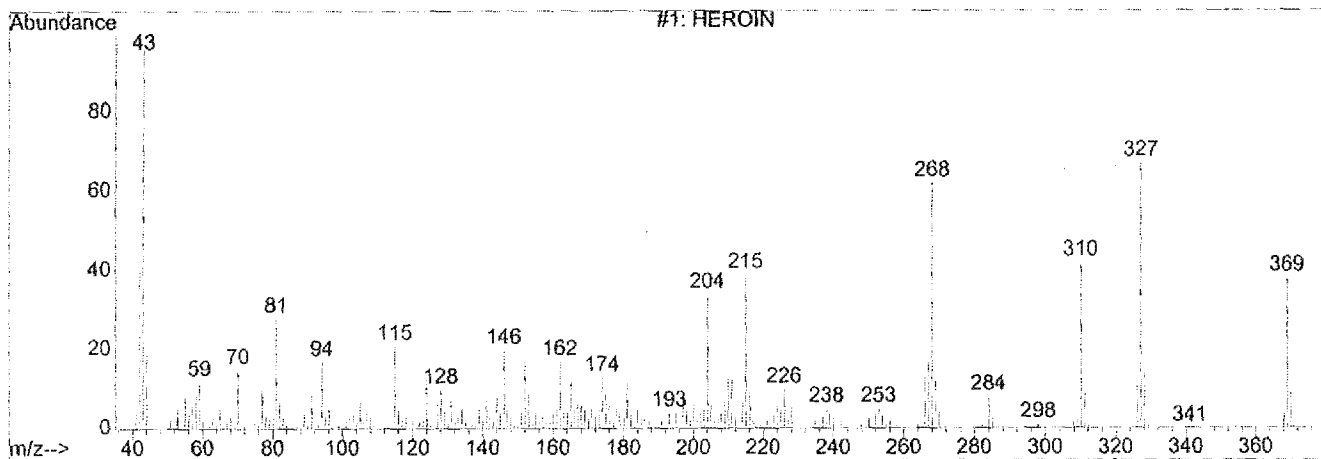
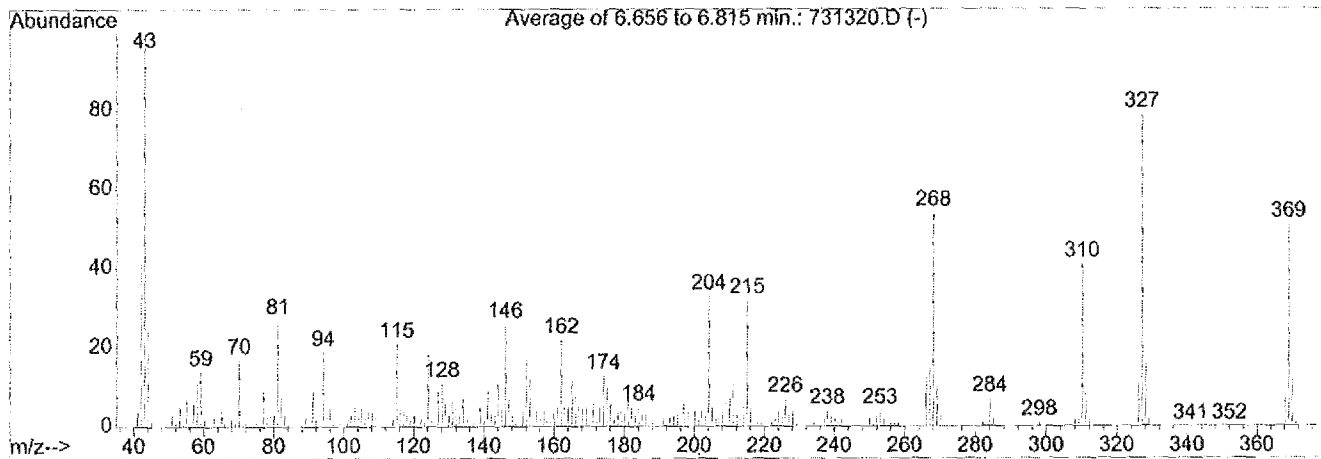
```

File Name       : D:\SYSTEM4\07_16_10\731320.D
Operator        : KAC
Date Acquired   : 16 Jul 2010   14:07
Sample Name     : HEROIN STD
Submitted by    :
Vial Number     : 20
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	6.70	C:\DATABASE\SLI.L HEROIN	000561-27-3	99



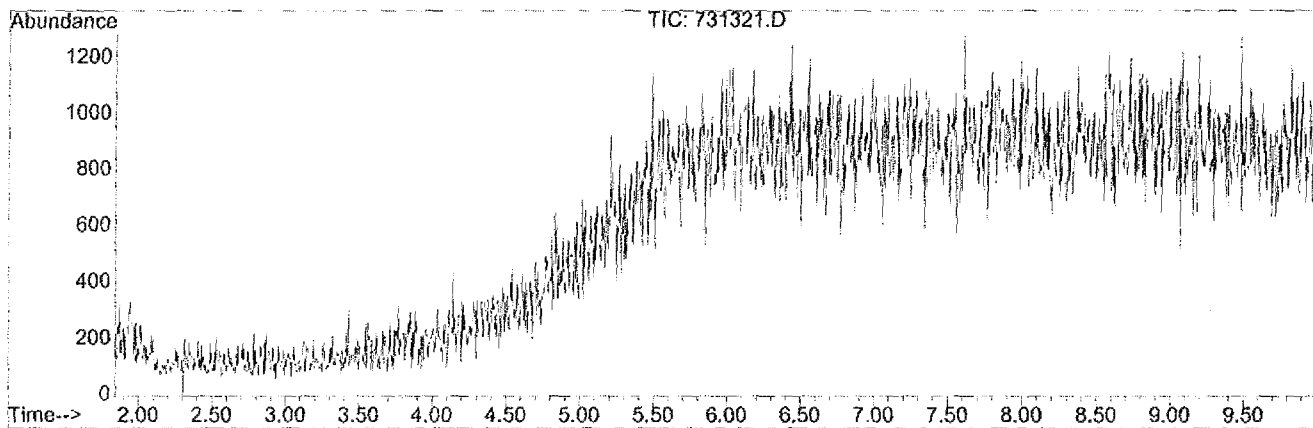
# Area Percent / Library Search Report

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## Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731321.D  
Operator : KAC  
Date Acquired : 16 Jul 2010 14:20  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

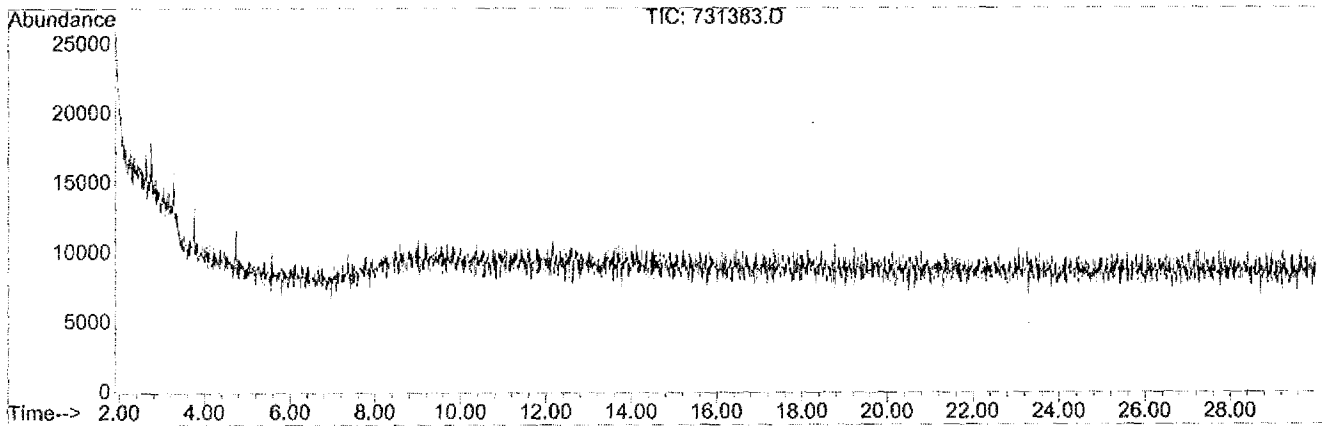
Area Percent / Library Search Report

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Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731383.D  
Operator : KAC  
Date Acquired : 17 Jul 2010 4:29  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: WSCREEN  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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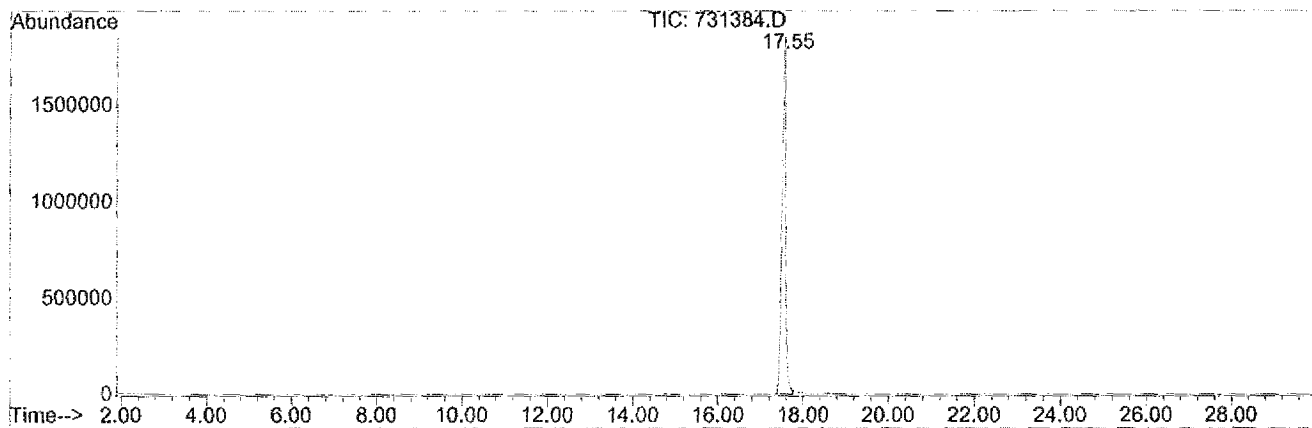
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731384.D  
 Operator : KAC  
 Date Acquired : 17 Jul 2010 5:03  
 Sample Name : BUPRENORPHINE STD  
 Submitted by :  
 Vial Number : 84  
 AcquisitionMeth: WSCREEN  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
17.551	11037963	100.00	100.00

# Area Percent / Library Search Report

**Information from Data File:**

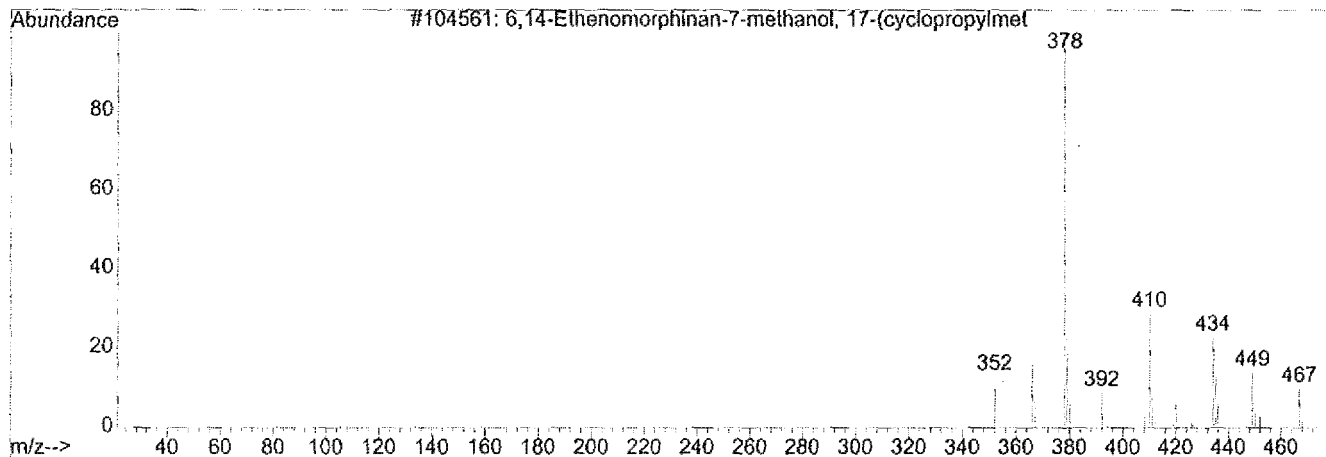
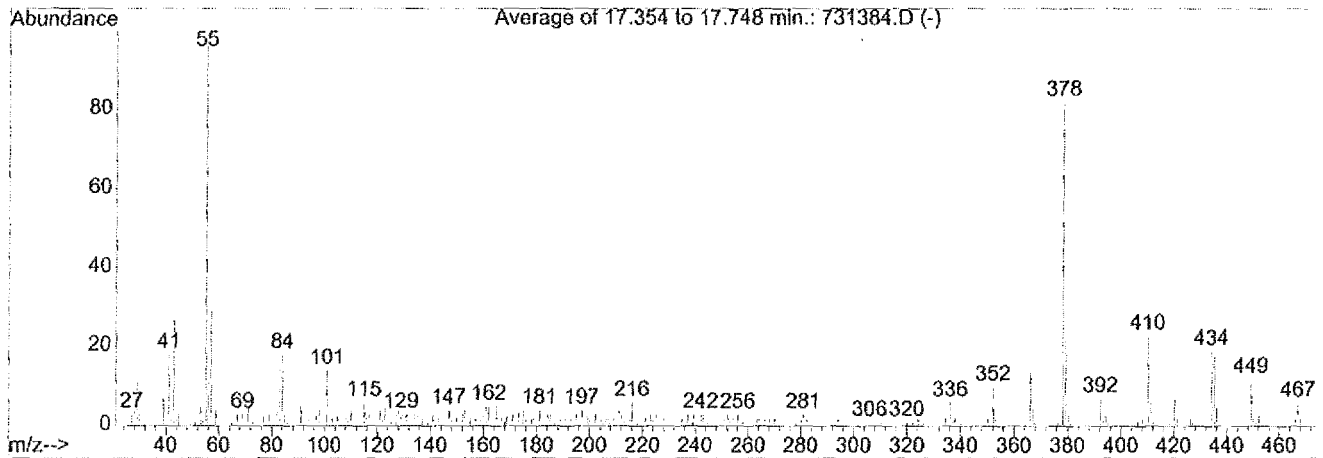
```

File Name       : D:\SYSTEM4\07_16_10\731384.D
Operator        : KAC
Date Acquired   : 17 Jul 2010   5:03
Sample Name     : BUPRENORPHINE STD
Submitted by    :
Vial Number     : 84
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	17.55	C:\DATABASE\NIST98.L		
		6,14-Ethenomorphinan-7-methanol,	17 052485-79-7	97
		6,14-Ethenomorphinan-7-methanol,	17 052485-79-7	87
		Anthiaergosta-5,7,9,22-tetraene	1000213-42-2	55



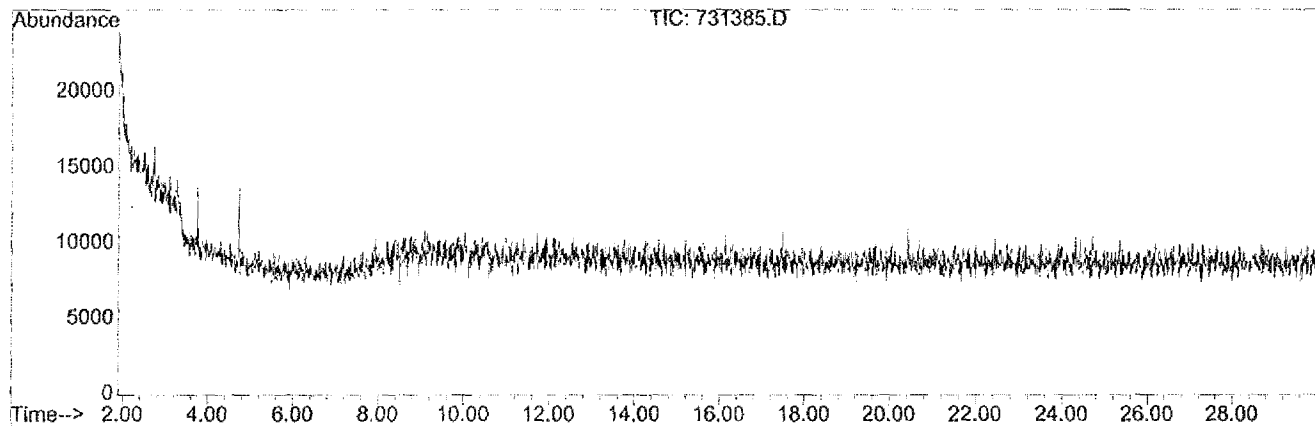
# Area Percent / Library Search Report

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## Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731385.D  
Operator : KAC  
Date Acquired : 17 Jul 2010 5:37  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: WSCREEN  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*



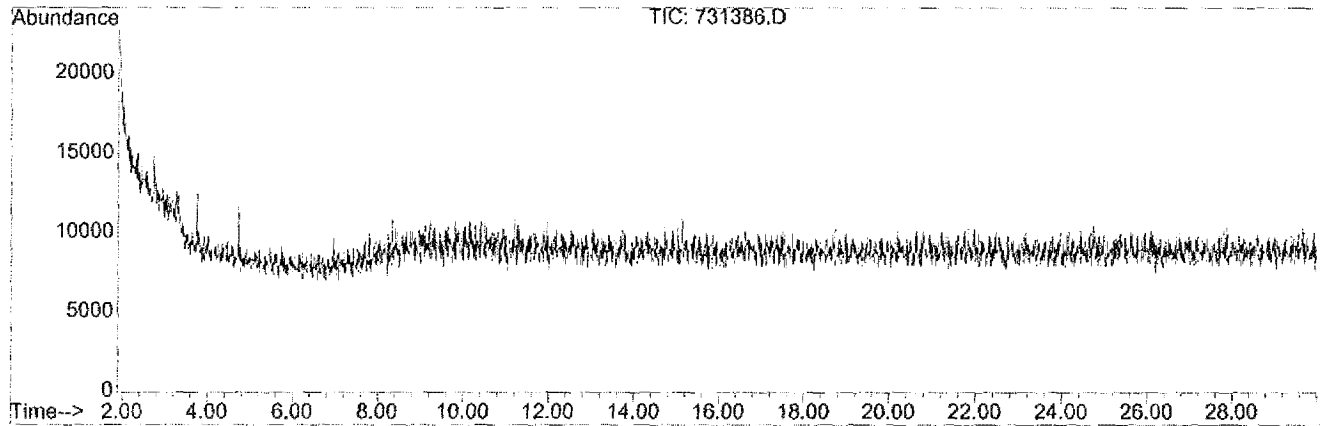
# Area Percent / Library Search Report

---

## Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731386.D  
Operator : KAC  
Date Acquired : 17 Jul 2010 6:11  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: WSCREEN  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
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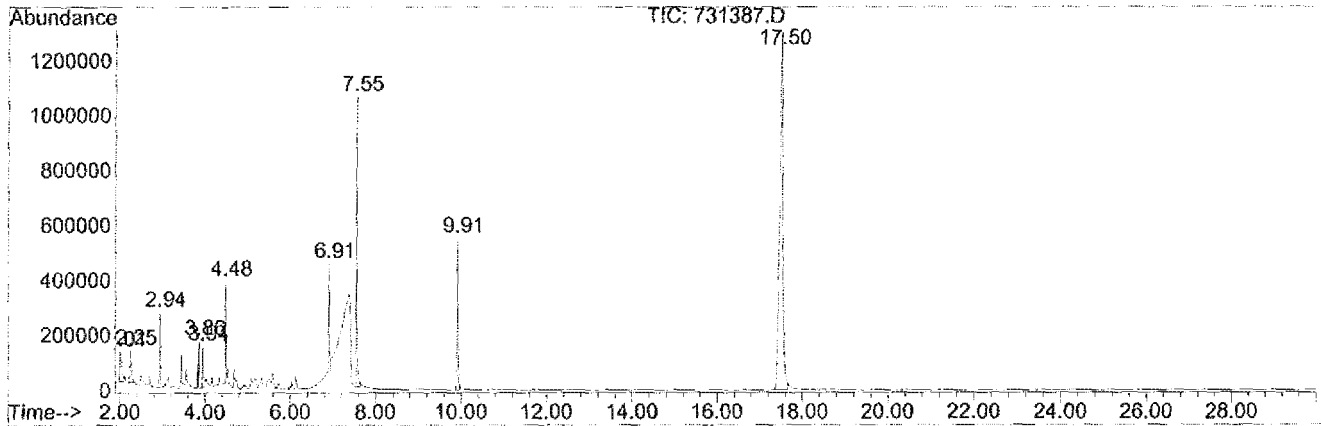
---

\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731387.D  
 Operator : KAC  
 Date Acquired : 17 Jul 2010 6:45  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 87  
 AcquisitionMeth: WSCREEN  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.012	329107	2.94	4.82
2.245	318406	2.85	4.66
2.939	392050	3.50	5.74
3.861	239696	2.14	3.51
3.944	224507	2.01	3.29
4.483	368894	3.30	5.40
6.906	464109	4.15	6.80
7.552	1130185	10.10	16.55
9.915	891422	7.97	13.05
17.500	6829405	61.04	100.00

# Area Percent / Library Search Report

**Information from Data File:**

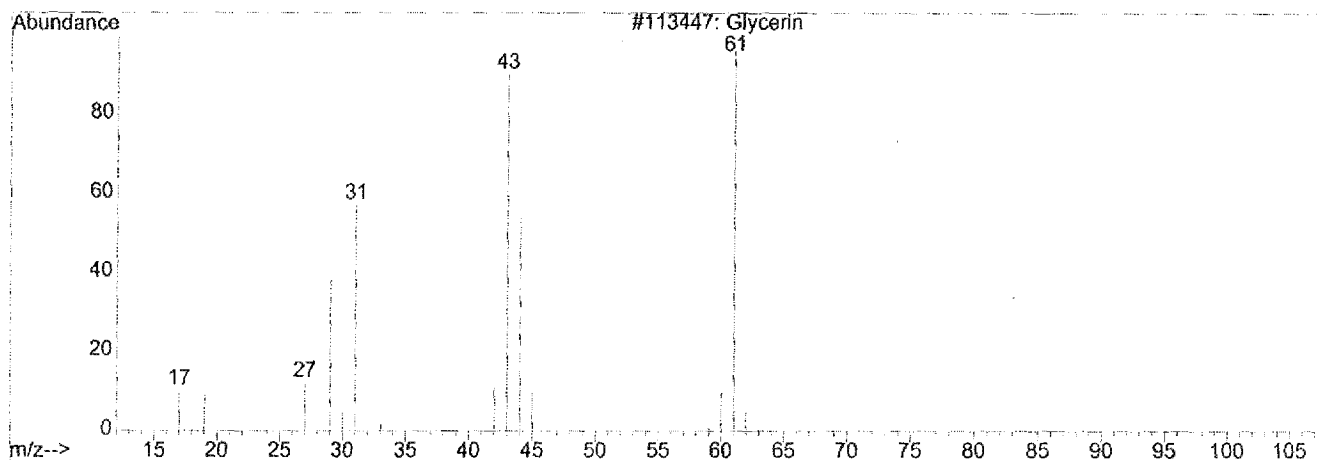
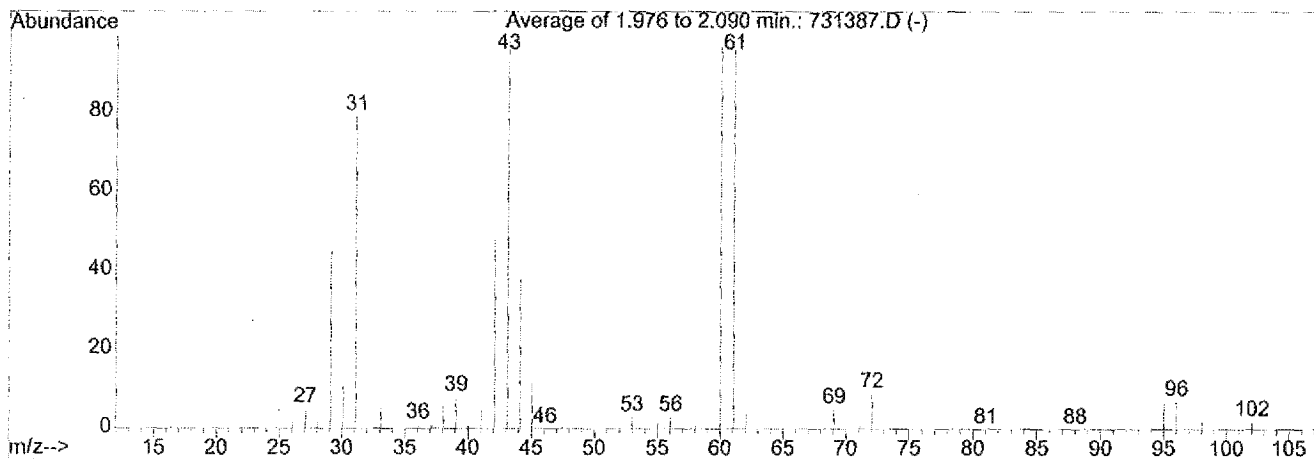
```

File Name       : D:\SYSTEM4\07_16_10\731387.D
Operator        : KAC
Date Acquired   : 17 Jul 2010   6:45
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 87
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	2.01	C:\DATABASE\NIST98.L		
		Glycerin	000056-81-5	47
		Formic acid, propyl ester	000110-74-7	22
		Benserazide	000322-35-0	10



# Area Percent / Library Search Report

**Information from Data File:**

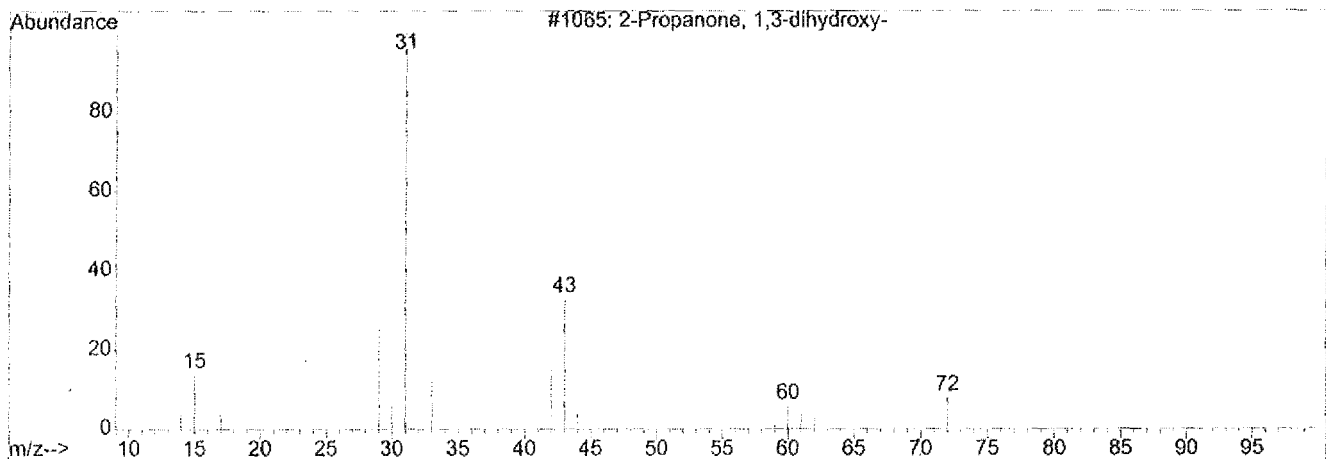
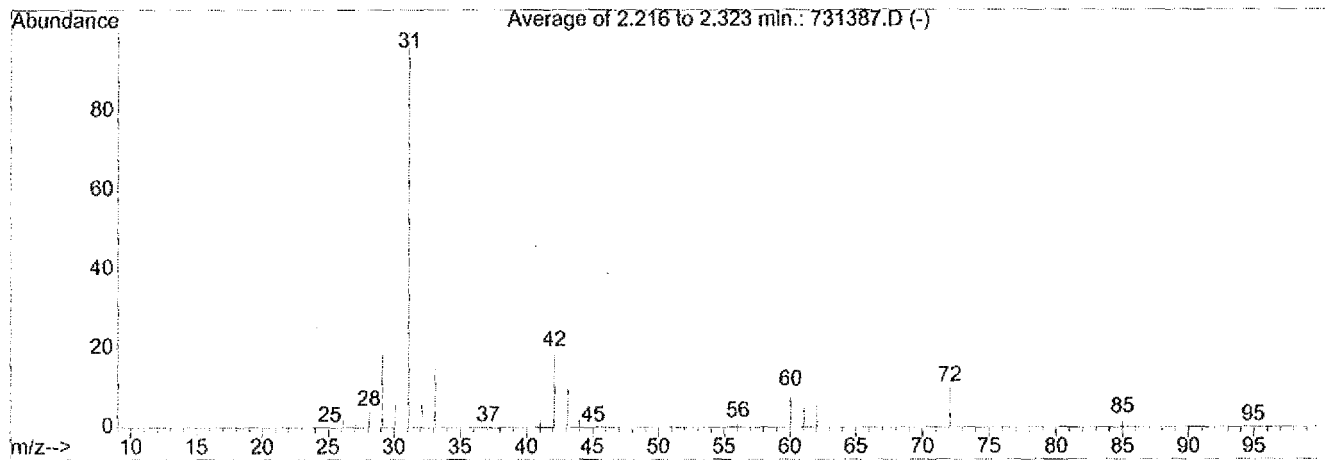
```

File Name       : D:\SYSTEM4\07_16_10\731387.D
Operator        : KAC
Date Acquired   : 17 Jul 2010   6:45
Sample Name     : 
Submitted by    : ASD
Vial Number     : 87
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
2	2.25	C:\DATABASE\NIST98.L		
		2-Propanone, 1,3-dihydroxy-	000096-26-4	64
		Acetaldehyde, hydroxy-	000141-46-8	42
		1,5-Pentanediol	000111-29-5	36



# Area Percent / Library Search Report

**Information from Data File:**

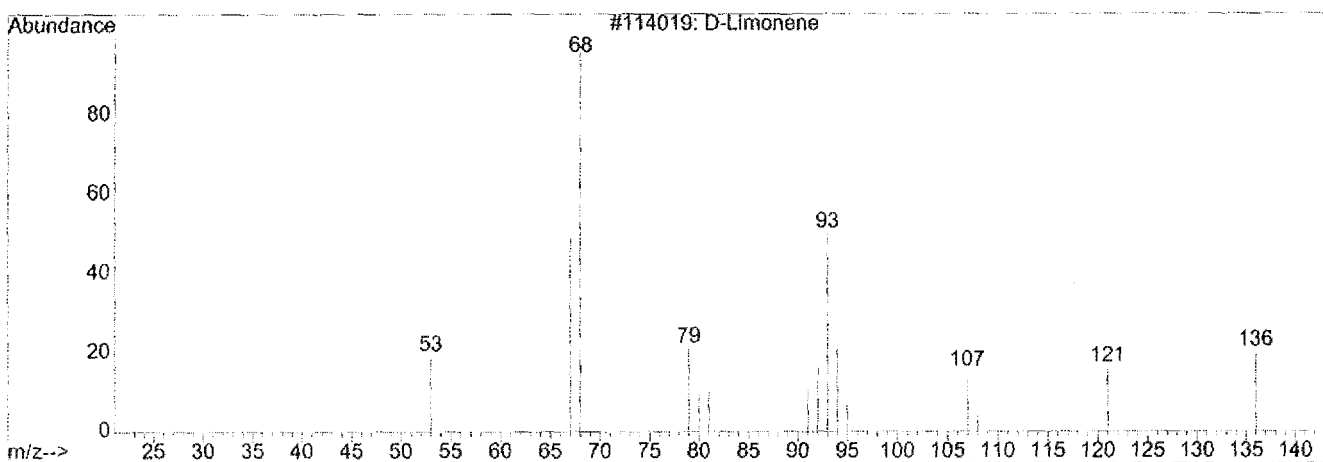
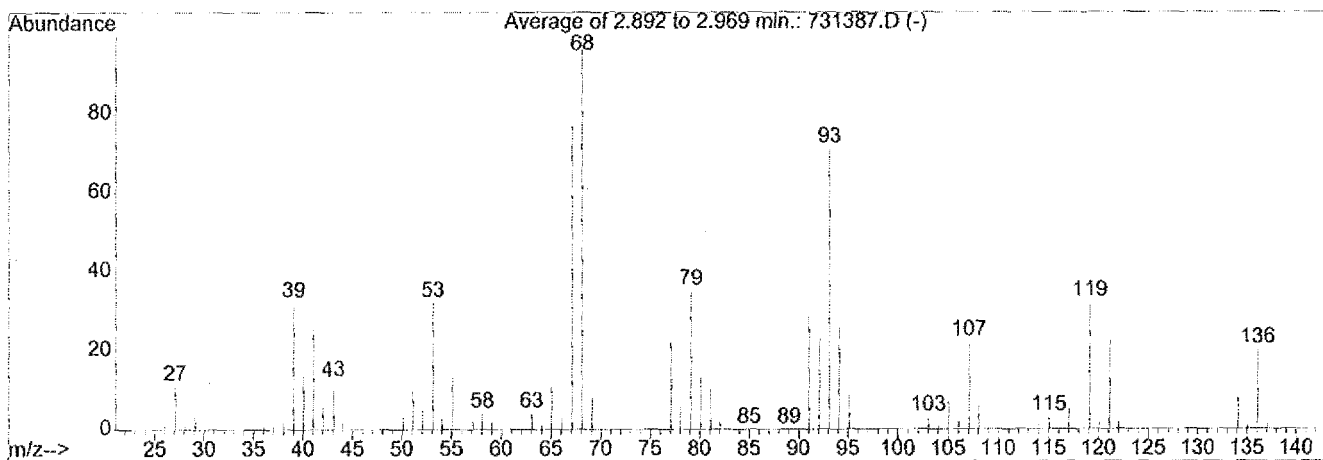
```

File Name       : D:\SYSTEM4\07_16_10\731387.D
Operator        : KAC
Date Acquired   : 17 Jul 2010    6:45
Sample Name     : 
Submitted by    : ASD
Vial Number     : 87
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
3	2.94	C:\DATABASE\NIST98.L		
		D-Limonene	005989-27-5	94
		D-Limonene	005989-27-5	94
		D-Limonene	005989-27-5	94



# Area Percent / Library Search Report

**Information from Data File:**

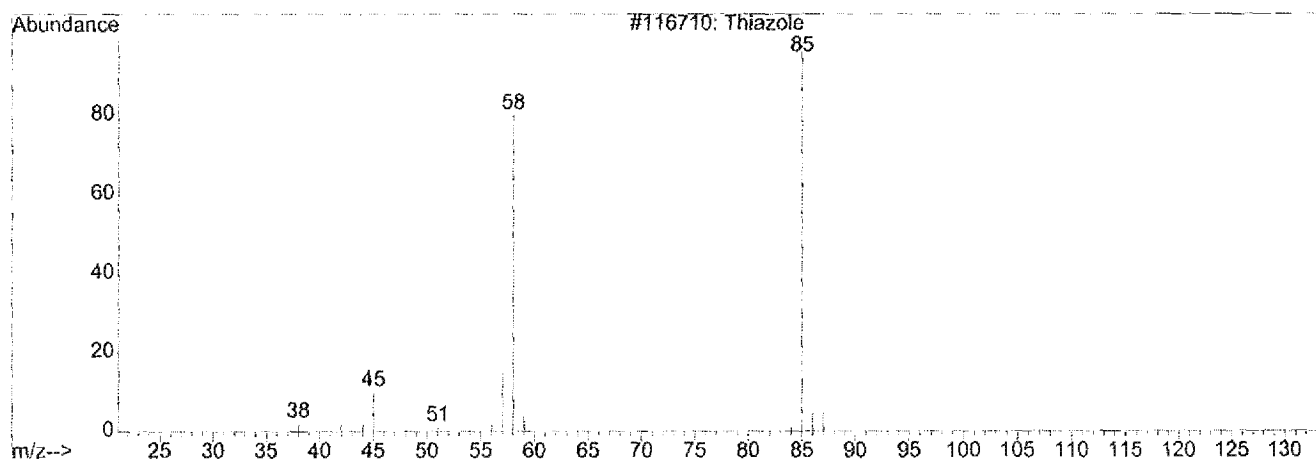
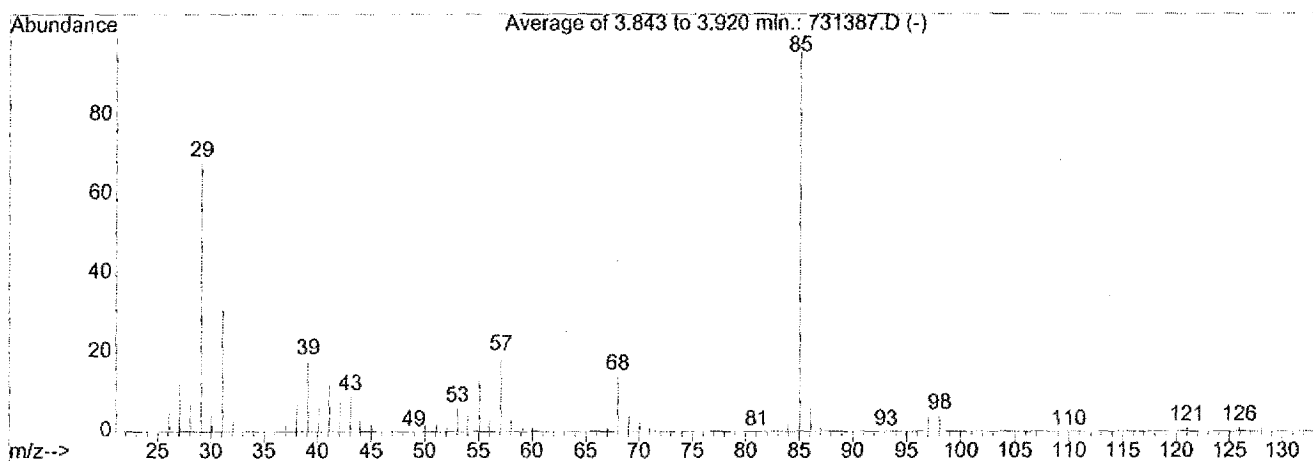
```

File Name       : D:\SYSTEM4\07_16_10\731387.D
Operator        : KAC
Date Acquired   : 17 Jul 2010   6:45
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 87
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
4	3.86	C:\DATABASE\NIST98.L		
		Thiazole	000288-47-1	64
		Tetrahydrofuran-5-on-2-methanol, .a	1000192-28-3	59
		Ethanone, 1-(1-hydroxycyclopentyl)-	017160-89-3	53



# Area Percent / Library Search Report

**Information from Data File:**

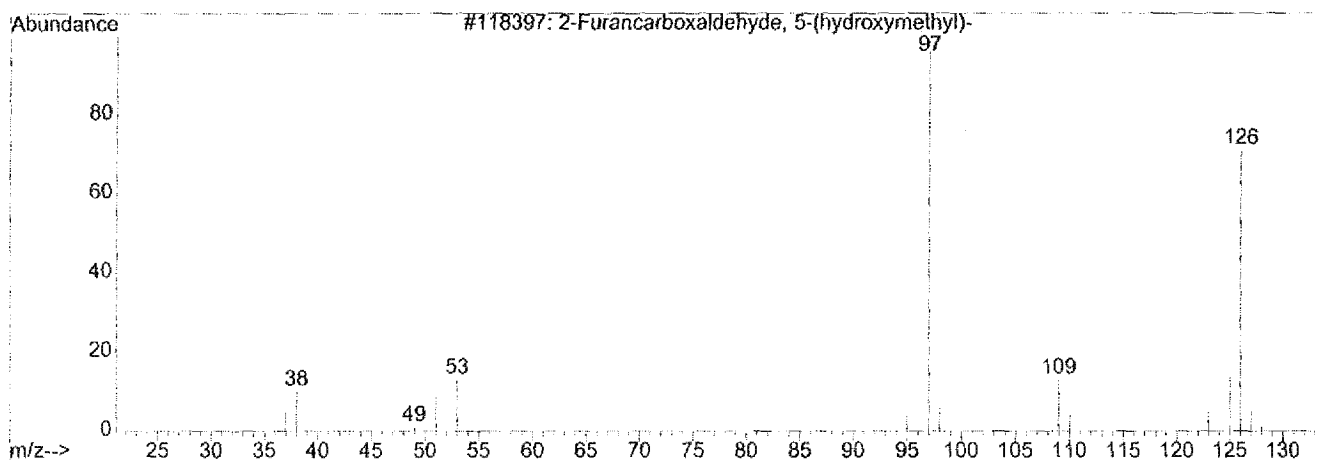
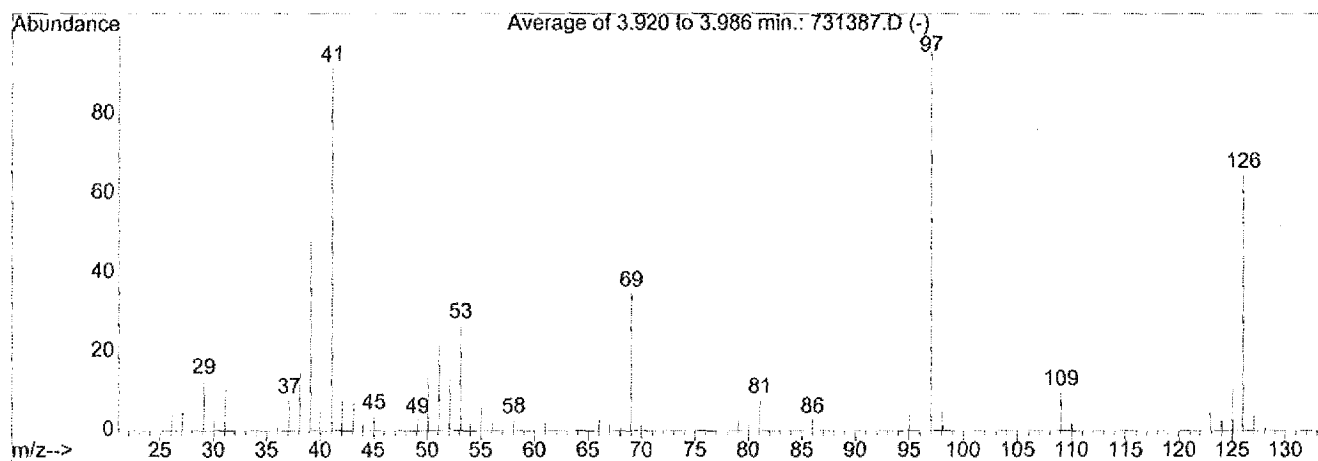
```

File Name       : D:\SYSTEM4\07_16_10\731387.D
Operator        : KAC
Date Acquired   : 17 Jul 2010   6:45
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 87
AcquisitionMeth : WSCREEN
Integrator      : RTE
    
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
    
```

PK#	RT	Library/ID	CAS#	Qual
5	3.94	C:\DATABASE\NIST98.L		
		2-Furancarboxaldehyde, 5-(hydroxyme	000067-47-0	70
		2-Furancarboxaldehyde, 5-(hydroxyme	000067-47-0	68
		2-Furancarboxaldehyde, 5-(hydroxyme	000067-47-0	52



# Area Percent / Library Search Report

**Information from Data File:**

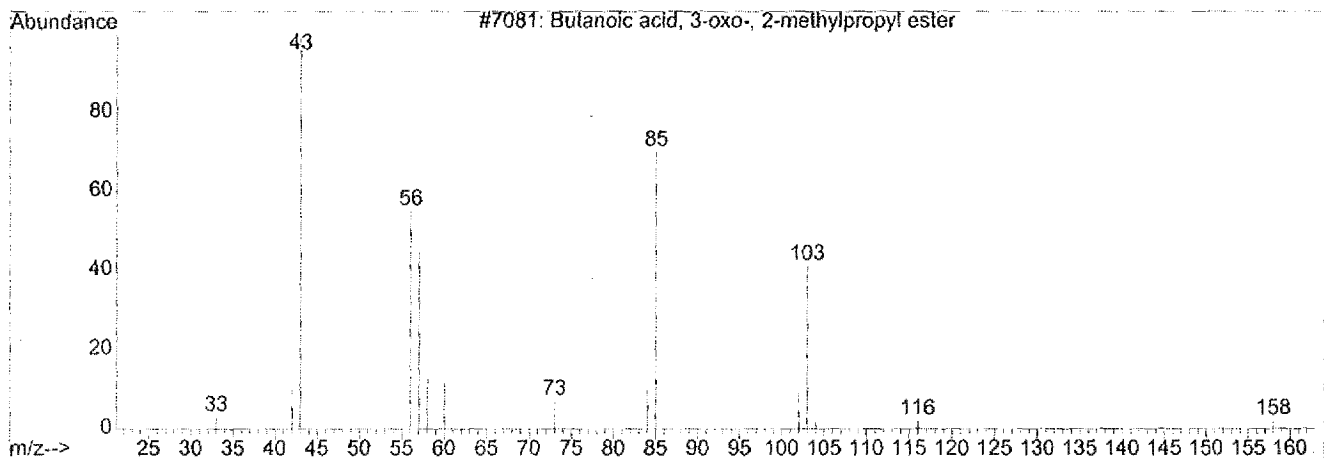
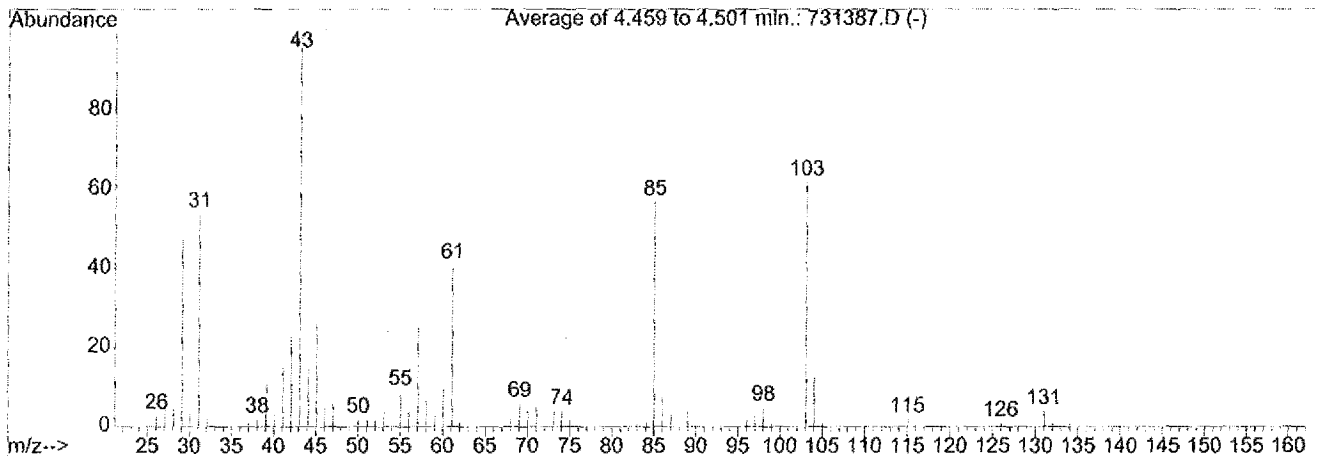
```

File Name       : D:\SYSTEM4\07_16_10\731387.D
Operator        : KAC
Date Acquired   : 17 Jul 2010   6:45
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 87
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
6	4.48	C:\DATABASE\NIST98.L		
		Butanoic acid, 3-oxo-, 2-methylprop	007779-75-1	35
		d-Glycero-d-ido-heptose	1000130-14-3	32
		cis-2,3-Epoxyheptane	014925-96-3	27





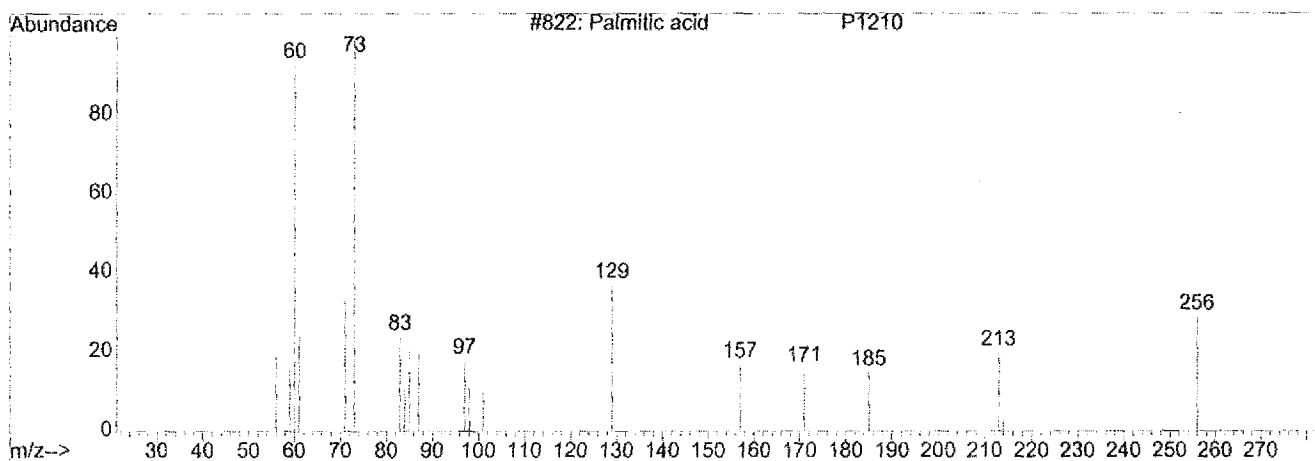
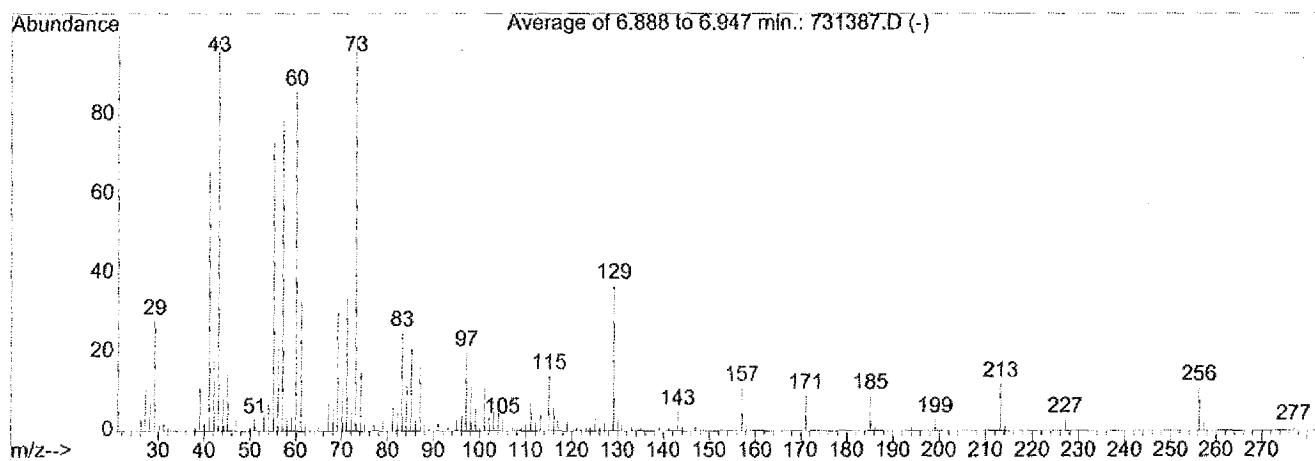
# Area Percent / Library Search Report

**Information from Data File:**

File Name : D:\SYSTEM4\07\_16\_10\731387.D  
 Operator : KAC  
 Date Acquired : 17 Jul 2010 6:45  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 87  
 AcquisitionMeth: WSCREEN  
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
 C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
7	6.91	C:\DATABASE\PMW_TOX2.L		
		Palmitic acid	000057-10-3	94
		Myristic acid	000544-63-8	68
		Cyclamate-M AC	001124-53-4	1



# Area Percent / Library Search Report

**Information from Data File:**

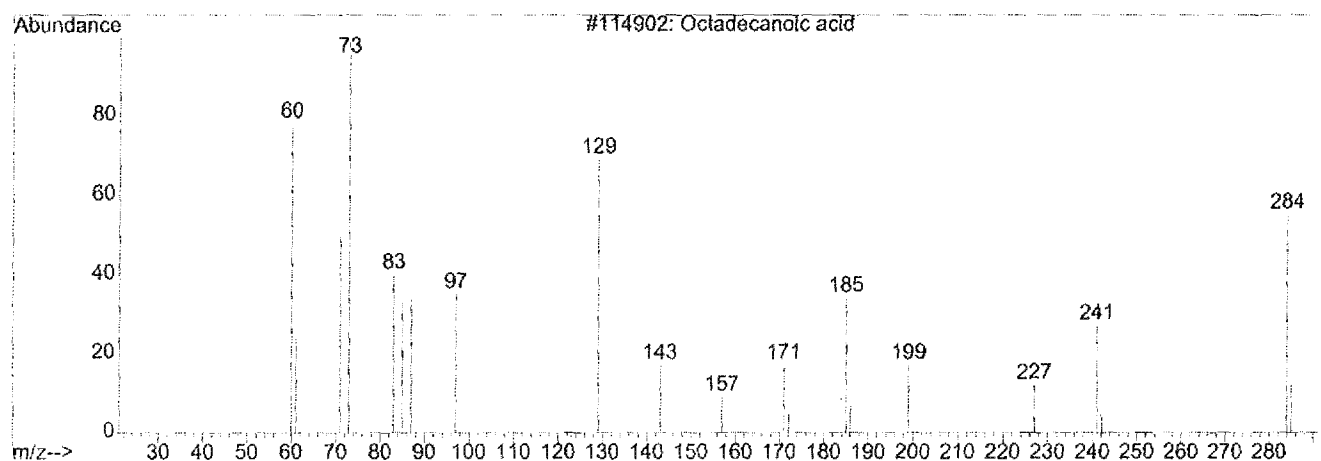
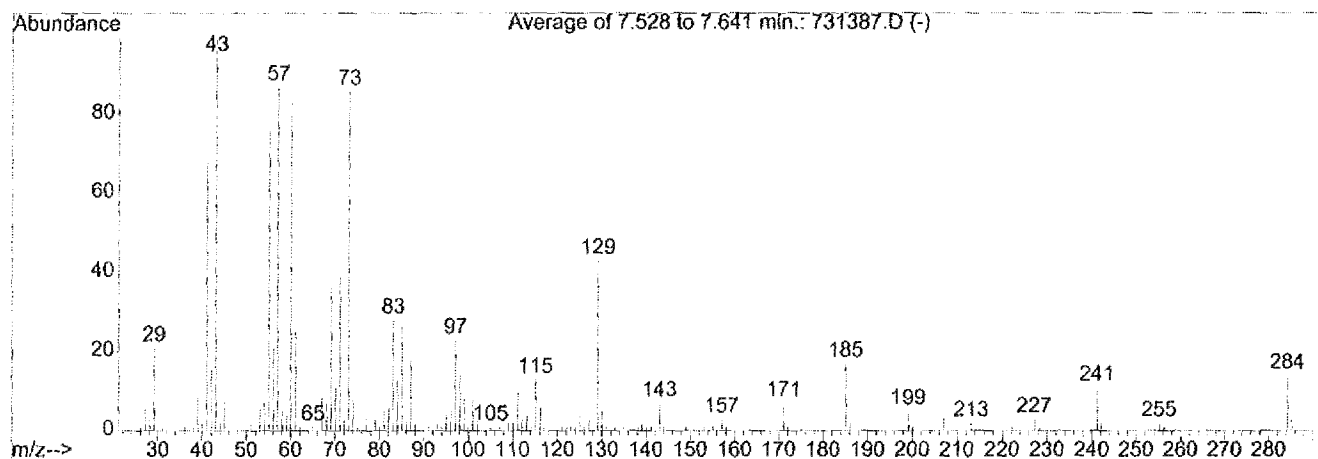
```

File Name       : D:\SYSTEM4\07_16_10\731387.D
Operator        : KAC
Date Acquired   : 17 Jul 2010   6:45
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 87
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
8	7.55	C:\DATABASE\NIST98.L		
		Octadecanoic acid	000057-11-4	96
		Octadecanoic acid	000057-11-4	96
		Octadecanoic acid	000057-11-4	95



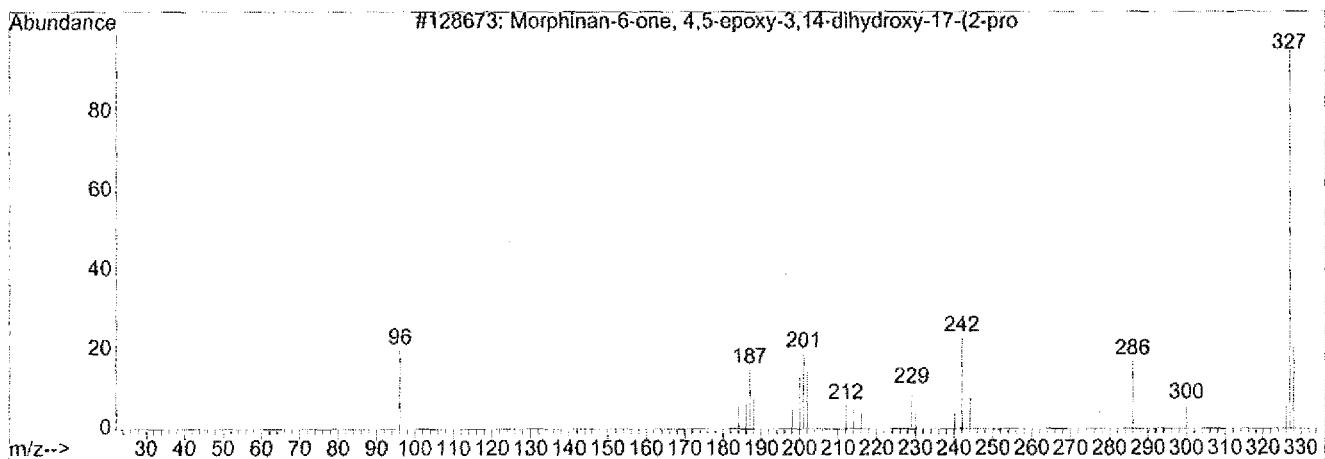
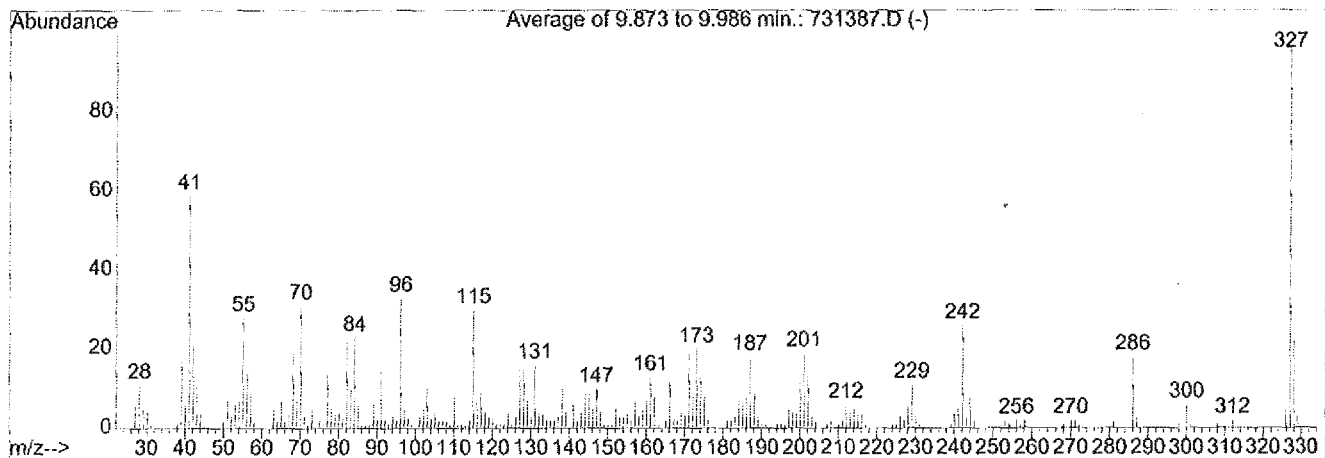
# Area Percent / Library Search Report

**Information from Data File:**

File Name : D:\SYSTEM4\07\_16\_10\731387.D  
 Operator : KAC  
 Date Acquired : 17 Jul 2010 6:45  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 87  
 AcquisitionMeth: WSCREEN  
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
 C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
9	9.91	C:\DATABASE\NIST98.L		
		Morphinan-6-one, 4,5-epoxy-3,14-dih	000465-65-6	99
		Morphinan-6-one, 4,5-epoxy-3,14-dih	000465-65-6	91
		Morphinan-6-one, 4,5-epoxy-3,14-dih	000465-65-6	60



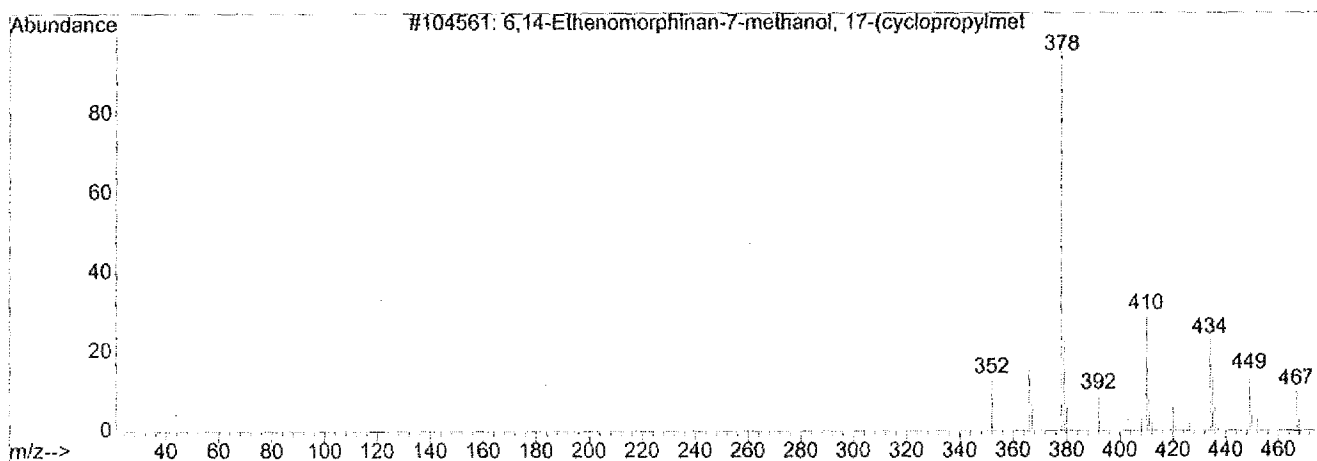
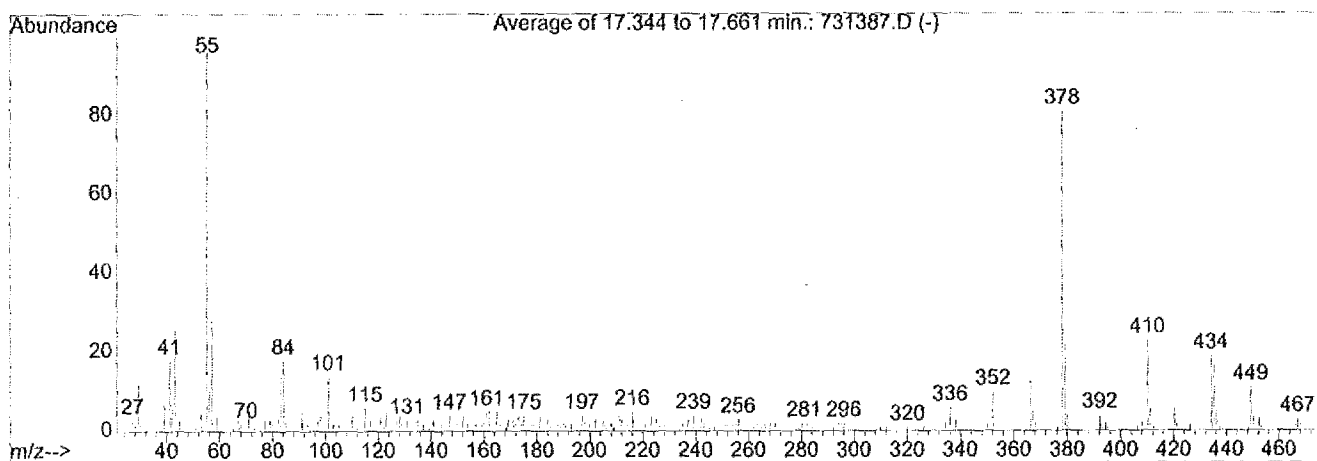
# Area Percent / Library Search Report

**Information from Data File:**

File Name : D:\SYSTEM4\07\_16\_10\731387.D  
 Operator : KAC  
 Date Acquired : 17 Jul 2010 6:45  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 87  
 AcquisitionMeth: WSCREEN  
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
 C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
10	17.50	C:\DATABASE\NIST98.L		
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	97
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	89
		Anthiaergosta-5,7,9,22-tetraene	1000213-42-2	55



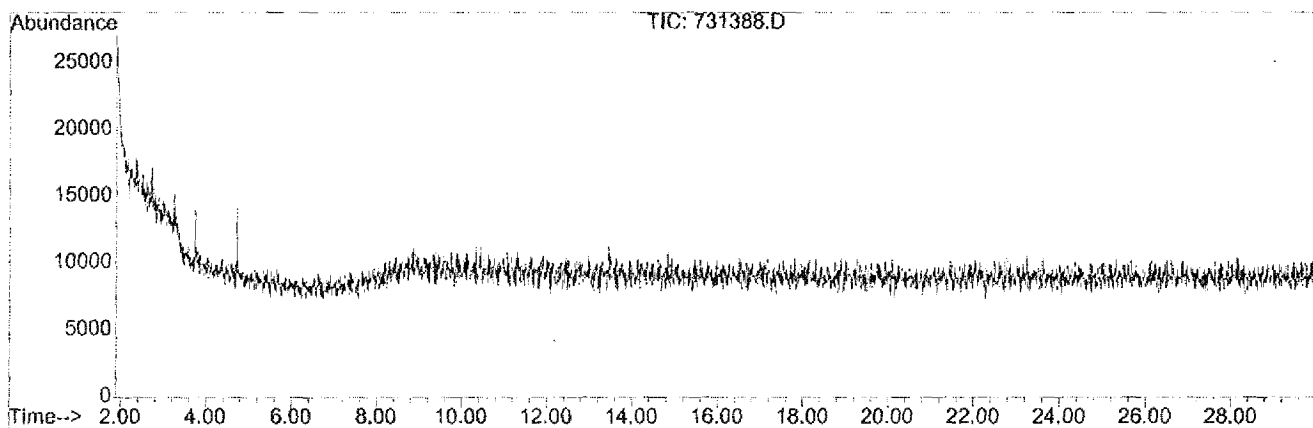
# Area Percent / Library Search Report

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## Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731388.D  
Operator : KAC  
Date Acquired : 17 Jul 2010 7:19  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: WSCREEN  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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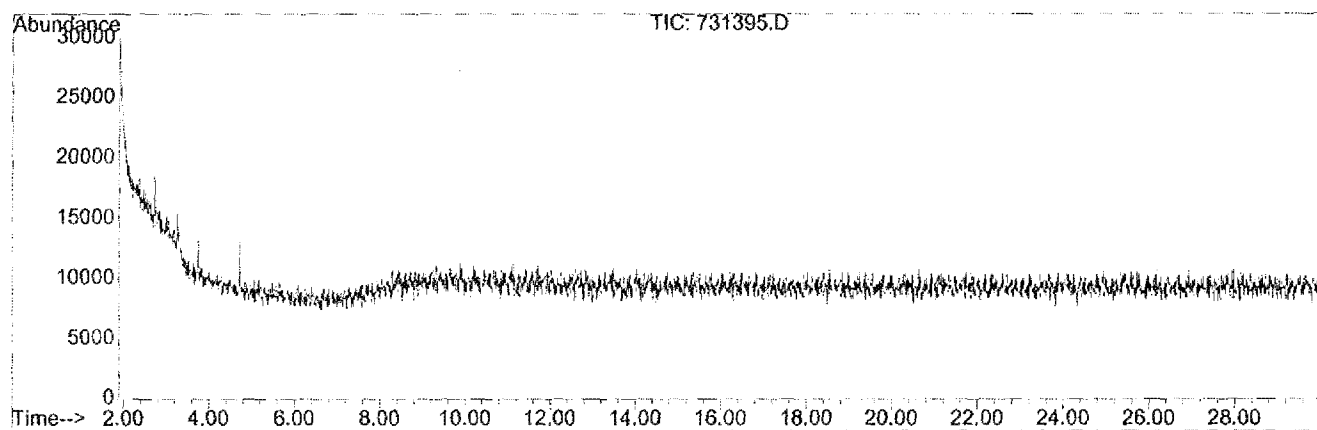
---

\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731395.D  
Operator : KAC  
Date Acquired : 17 Jul 2010 11:18  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: WSCREEN  
Integrator : RTE



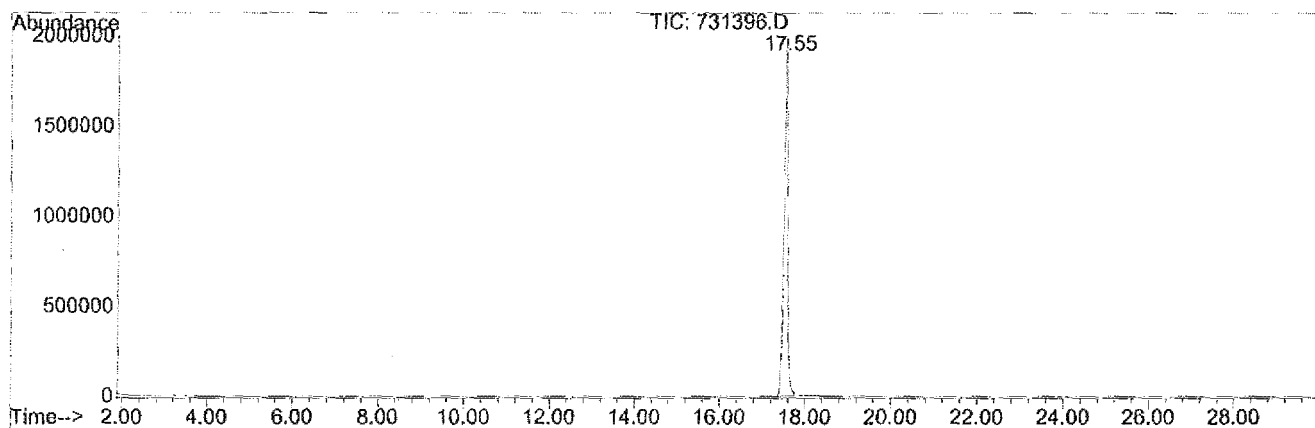
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731396.D  
 Operator : KAC  
 Date Acquired : 17 Jul 2010 11:52  
 Sample Name : BUPRENORPHINE STD  
 Submitted by :  
 Vial Number : 84  
 AcquisitionMeth: WSCREEN  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
17.551	11950509	100.00	100.00

# Area Percent / Library Search Report

**Information from Data File:**

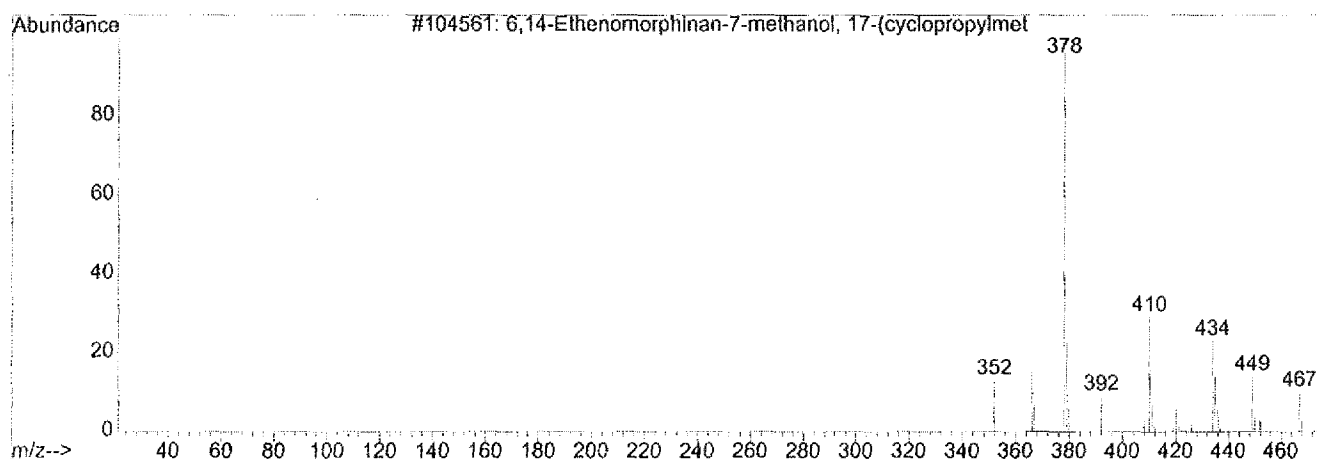
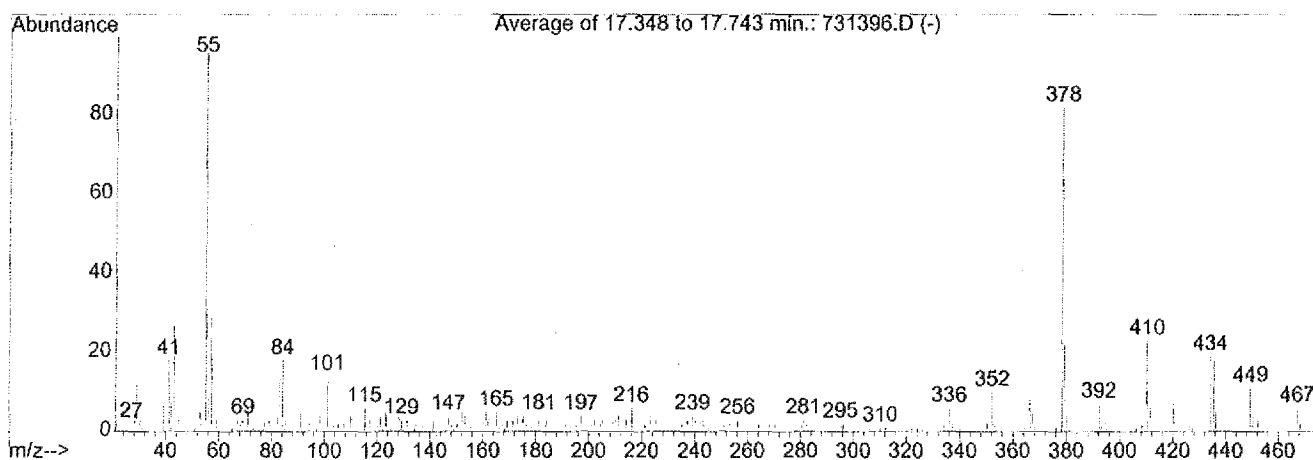
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File Name       : D:\SYSTEM4\07_16_10\731396.D
Operator        : KAC
Date Acquired   : 17 Jul 2010  11:52
Sample Name     : BUPRENORPHINE STD
Submitted by    :
Vial Number     : 84
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	17.55	C:\DATABASE\NIST98.L		
		6,14-Ethenomorphinan-7-methanol,	17 052485-79-7	96
		6,14-Ethenomorphinan-7-methanol,	17 052485-79-7	87
		Anthiaergosta-5,7,9,22-tetraene	1000213-42-2	55





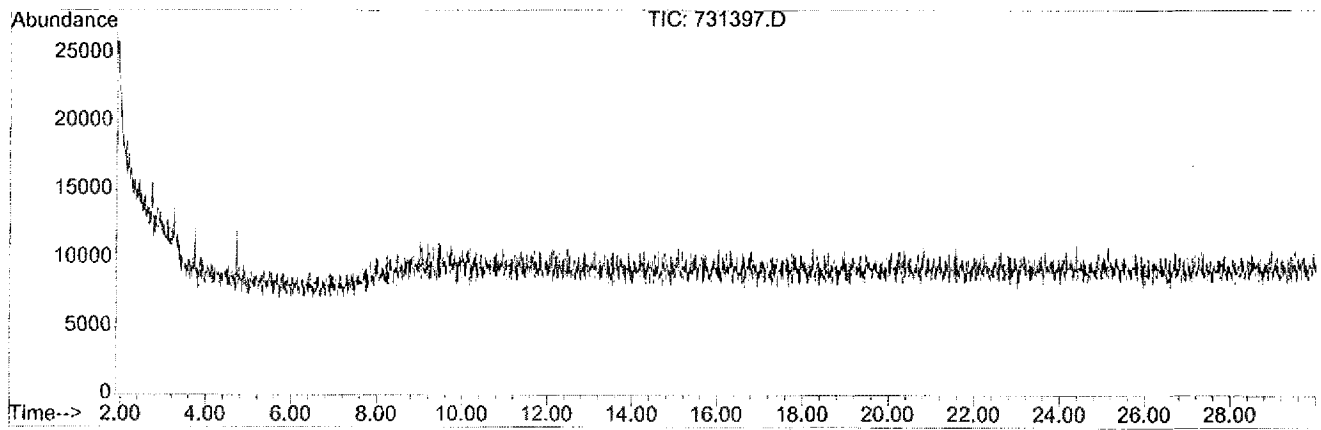
# Area Percent / Library Search Report

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## Information from Data File:

File Name : D:\SYSTEM4\07\_16\_10\731397.D  
Operator : KAC  
Date Acquired : 17 Jul 2010 12:26  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: WSCREEN  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*